

Manufacturers Record

Exponent of America



\$6.50 per Year.
Single Copy, 20 Cents.

Baltimore, Md.
MAY 26, 1927



Inasmuch.

No less than 500,000 people, probably more, in the Mississippi Valley are homeless, huddled in refugee camps. Notwithstanding the magnificent work of the Red Cross, it is impossible that these half-million people crowded together can live under sanitary conditions necessary to prevent the wide spread of diseases. The dwellings of many of these people, their furniture, their livestock and practically all of their worldly possessions have been swept away.

So appalling is the disaster that the human mind cannot grasp its full meaning. The sufferings which these people are enduring and will endure physically, mentally and financially in their homeless and poverty-stricken condition, is due to the failure of the Federal Government to do the things which for years well-informed engineers knew were absolutely essential as a safeguard against such a flood. Over and over again the warning has been given, but heedless in this case as in many others the Federal Government has simply played with the situation niggardly in the amount of money expended, inconceivably narrow-minded in the realization of the problems involved.

Never have people met any great disaster with more heroism on the part of the sufferers and those who are trying to rescue them. Facing this whole situation, the MANUFACTURERS RECORD reiterates what it has often said, that an immediate session of Congress should be called for the express purpose of appropriating an amount of money sufficient to overcome all of the present difficulties of these half-million homeless people, and appointing perhaps a commission of engineers in civil life, as well as Army engineers, to investigate the whole problem and make a report to the regular session of Congress. The Red Cross is doing magnificent work, but only Government aid is equal to the situation.

If President Coolidge has not called Congress together for fear that it might result in a political scramble about other things, he might well heed the old lesson—"do your duty and leave the consequences with God."

"Inasmuch as ye have done it unto one of the least of these my brethren, ye have done it unto me."

* * *

"Inasmuch as ye did it not to one of the least of these, ye did it not to me."



Department Store

Montreal, Canada

Built for T. Eaton Company, Limited
The Foundation Company, General Contractor

Both superstructure and substructure of this attractive department store were built by The Foundation Company for T. Eaton Company, Limited, in Montreal. The building is of steel and reinforced concrete construction, fireproofed with terra cotta; the exterior walls being faced with Tyndall Limestone quarried in Manitoba. The Foundation Company has built a number of similar structures.

THE FOUNDATION COMPANY CITY OF NEW YORK

*Office Buildings
Industrial Plants
Warehouses
Railroads and Terminals
Foundations and Underpinning
Filtration and Sewage Plants*

ATLANTA
PITTSBURGH
CHICAGO
SAN FRANCISCO

MONTREAL
MEXICO CITY
CARTAGENA, COLUMBIA
LIMA, PERU

LONDON, ENGLAND
PARIS, FRANCE
BRUSSELS, BELGIUM
TOKYO, JAPAN

*Hydro-Electric Developments
Power Houses
Highways
River and Harbor Developments
Bridges and Bridge Piers
Mine Shafts and Tunnels*

BUILDERS OF SUPERSTRUCTURES AS WELL AS SUBSTRUCTURES

Table of Contents

Baltimore, Md., May 26, 1927

InasmuchCover Page

EDITORIALS

Reconstruction Activities Progress As Rapidly As Water Recedes, Typifying Indomitable Energy of the People.....	49
A Chance for Some New England Philanthropists.....	50
A Glorious Achievement.....	50
"Our Folks in Mississippi Valley Will See This Thing Through to the Finish".....	51
Atlanta Constitution Discusses Unwisdom of Letter to Southern Industrialists.....	52
An Un-Christian Attack by Religious Paper Against President Edgerton of National Association of Manufacturers.....	52
An Appeal to the Nation by Wilbur Wakeman.....By Wilbur F. Wakeman	53
Why a Special Session of Congress Is Needed for Immediate Financial Relief.....	54-62

NEWS ARTICLES

How New Orleans Fought and Won Against the Flood....By Thomas Ewing Dabney	63
Picture Story of Mississippi Valley Flooded Area.....By Craddock Goins	65
Flood Control—A Problem of Economics and Public Policy First, and of Engineering Skill Next.....By Walter Parker	69
Reconstruction Materials Needed in Reconstruction Work in Flooded Area.....	70
South Conspicuous in Nation's Foreign Trade.....	71
"Blessed Be the Ties That Bind".....By George Garner	73
Unique Farm Development of 120,000 Acres in Florida..By Richard Woods Edmonds	75
Progress in Development of New Fuels As Seen by Distinguished Chemist.....	78
A Texas Power Company Expendng \$20,000 Daily for Improvements and Expansions By George D. Armistead	79
\$500,000 Altamaha River Bridge Now Open for Traffic.....	84

DEPARTMENTS

The Iron and Steel Situation.....	85	Mechanical	90
Railroads	87	Construction	91
Textile	88	Industrial News of Interest.....	113
Good Roads and Streets.....	89	Financial News.....	116

Manufacturers Record

RICHARD H. EDMONDS, Editor

PUBLISHED EVERY THURSDAY BY THE

MANUFACTURERS RECORD PUBLISHING CO.

Office: Manufacturers Record Building, corner Commerce and Water Streets, Baltimore, Maryland
Printing Plant, 8th Floor, Candler Building, Market Place and Lombard Street, Baltimore, Maryland

RICHARD H. EDMONDS, President; FRANK GOULD, First Vice-President; VICTOR H. POWER, Second Vice-President;
I. S. FIELD, Secretary; J. ROBERT GOULD, Treasurer

BRANCH OFFICES:

CHICAGO, 11 South La Salle Street

NEW YORK, 901 Singer Building

CINCINNATI, 333 Dixie Terminal Building

SUBSCRIPTION RATES:

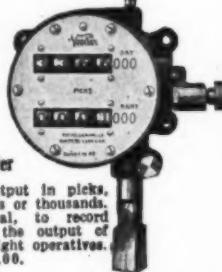
\$6.50 a year (in advance); six months, \$3.50; three months, \$2 to United States, Mexico, Cuba, Porto Rico, Hawaii and the Philippines. For Canada add postage \$3 a year. For other foreign countries add postage \$5.50 a year. Back numbers, if available and not over one month old, 20 cents each. From one month to six months old, 50 cents each; over six months old, \$1 each. In ordering change of address, give old as well as new address.

MEMBER ASSOCIATED BUSINESS PAPERS, INC., AND AUDIT BUREAU OF CIRCULATIONS



Large Revolution Counter

Registers one for each revolution, recording operations or output. Sets back to zero by turning knob. Cut about $\frac{1}{4}$ size. With four figures, price \$10.00. Set-Back Rotary Ratchet type, \$11.50. Price, \$21.00.



Duplex Loom Counter

Records output in picks, in hundreds or thousands. Double dial, to record separately the output of day and night operatives.

These dials will never lose a minute in telling you the work-situation at machines. Nothing makes the work *add up* like their every-minute check-up of machine operatives. *Booklet!*—it's interesting.

THE VEEDER MFG. CO. 17 Sargeant St. Hartford, Conn.



Don't depend on teams, trucks or inclines for hauling. Use the air. Overhead haulage is practical, economical.

Send for Catalog No. 84

BRODERICK & BASCOM ROPE CO.
ST. LOUIS, MO.
New York Seattle
F-348

B&B Aerial Tramways

TRADE "LEADITE" MARK
Registered U. S. Patent Office

For Jointing Cast-Iron Water Mains
Saves at Least 75%

Leadite Tested and Used for Over 30 Years
Leadite Joints Improve with Age

The Leadite Co., Land Title Building, Philadelphia, Pa.
See our full page ad second issue each month

NO CAULKING



CRANES BUCKETS SHOVELS

ORTON 608 S. Dearborn St.
CRANE & SHOVEL CO. Chicago - Illinois

ASHLAND

The man who uses sized Ashland Fire Brick of Kentucky flint clay isn't worried by fallen arches and cracked brick work.

Ashland Fire Brick Co.
Incorporated 1886
ASHLAND KENTUCKY



LESCHEN AERIAL TRAMWAYS

are economical carriers because

- they are correctly designed
- they are sturdily built
- they are not affected by weather conditions
- maintenance and operating costs are low

Made in different systems Your inquiries are solicited
Established 1857

A. LESCHEN & SONS ROPE COMPANY
5909 Kennerly Ave., ST. LOUIS
New York Chicago Denver San Francisco

A NICHOLSON
File for Every Purpose

You know it's a NICHOLSON by the way it "bites!"

NICHOLSON FILE CO.
Providence, R. I., U. S. A.



HIGH GRADE SPRINGS
for all mechanical uses



Dependable life is built into our springs in every process of manufacture.

RAYMOND MFG. CO.
CORY, PA.

Manufacturers Record

EXONENT OF AMERICA

Devoted to the Upbuilding of the Nation Through the Development
of the South and Southwest as the Nation's Greatest Material Asset

Trade-Name Registered in the U. S. Patent Office

Vol. XCI No. 21
Weekly.

BALTIMORE, MAY 26, 1927.

Single Copies, 20 Cents.
\$6.50 a Year.

Reconstruction Activities Progress As Rapidly As Water Recedes, Typifying Indomitable Energy of the People.

PRESIDENT DANIEL UPTHEGROVE, president of the St. Louis Southwestern Railway Lines, sends an interesting statement based on the detailed report made by P. T. Cole, the Agricultural Commissioner of that road, on the effect of the flood upon agricultural and commercial conditions in the territory served by his road. Mr. Upthegrove writes:

"Our people are meeting the challenge of physical suffering, privation and extensive property losses in a characteristic American manner. Already they are busily at work planting crops and restoring levees, highways, bridges and other structures damaged by the floods. The territory presents a scene of intense activity. In my opinion the additional energy which has been called forth by the disaster will go far to offset the losses suffered.

"Our financial institutions and other credit organizations have resources ample for the restoration.

"So far as we can now foresee, unless further adversity overtakes us, the year 1927 in our territory should upon the whole prove normal."

In the detailed report of Mr. Cole based on some 1200 replies received from different points along the road, it is stated that "In some sections the flood farmers had intended reducing the cotton acreage. The decrease will be large, due to the fact that the land is so wet that the crop cannot be planted in time to insure a good yield. As a result corn will be the major crop. Sudan grass is being planted for quick hay and pasture. Soy beans, cow peas and sorghum will be planted for hay, grain and cash crops. These crops will be started as soon as cultivation is possible. That relates especially to southeast Missouri. In the cotton belt territory in Arkansas, 17 counties were affected by high water." Further the report continues:

"The reduction in the cotton acreage in the flooded areas will be as high as 25 per cent. Ample supplies of seed of early maturing variety are available. Some of the lower lands will not dry out in time to mature a satisfactory cotton crop, and these lands will be planted to June corn, cowpeas, soy beans, peanuts and Sudan grass. However, one acre of cotton land in the bottoms will ordinarily produce as much as two acres of hill land.

"From now on the reduction in cotton acreage will not be so great as might be expected. Cotton is being 'muddled in' as rapidly as the water receded. Many farmers living outside of the flooded districts are increasing their acreage in cotton which will to a degree offset the decrease in acreage in the flooded areas. Less than 10 per cent of the rice land in Arkansas was affected."

Mr Cole quotes A. H. Prince, Arkansas Rice Extension

Agent, as saying the overflowed lands will be immeasurably benefited by the rich deposits of silt.

Further discussing the subject under the head of "General Information" Mr. Cole says:

"The damage to highways and bridges has been heavy, and reconstruction will require a vast amount of materials and furnish employment to farmers and laborers whose work has been interrupted by the flood conditions.

"Refugees are helping farmers outside of the flooded area to plant and cultivate their crops. These farmers will return with the refugees and help them with their delayed work as the flood recedes. This exchange of work is a factor worthy of note.

"Throughout the entire territory in city and country the people are resuming their regular occupations as readily and energetically as the work of restoration will permit."

The New York Trust Company in its monthly publication entitled "The Index" discusses the "Economic Consequences of the Flood," and says:

"The chief effect on industry as a whole will be no greater than a temporary decline in the buying power of a relatively small section of the country.

"The national economic consequences of the flood are therefore likely to be small. This, however, cannot be taken as any measure of the suffering or the need of the people involved in the disaster. At last reports the American Red Cross was caring for some 338,000 refugees. Six million acres of land were flooded, and the Secretary of Commerce estimated the immediate physical damage at \$200,000,000. This is a figure that increases daily, and estimates run as high as a loss of over \$1,000,000,000.

"The work of reconstruction may create a shortage of labor for a time. The railroads, industrial plants, and highway and levee constructors will compete with the farmer for labor. The farmer's need for workers will be greater than usual inasmuch as there is considerable repair work to be undertaken and some planting must be done again. It is probable that this rehabilitation will, however, proceed more rapidly than is expected.

"It is to be hoped that the chief consequence of the Mississippi flood will be the lesson that it must never happen again. The Secretary of Commerce and the chief of Army engineers have stated that the 'one practical, feasible and economic solution' to the problem of these recurrent floods is the construction of adequate levees. This work, which would be national in its effect, would be carried on by the Federal Government. The cost will be enormous, but the nation will be willing to pay for the assurance that disasters of this kind will be prevented in the future."

The statements issued by President Upthegrove and by the New York Trust Company, one from St. Louis and one from New York, voice the conservative thought of people who realize the magnitude of the disaster, but who know at the same time the tremendous spirit of energy and initiative

that is always developed by a condition of this kind. Out of this disaster the flooded section of the Mississippi Valley will give an illustration of the inherent power for meeting adversity equal to, if not surpassing, anything which has ever been seen in America.

Mourn as we should the death of many people, and the losses of hundreds of millions of dollars, and insist as strongly as possible that the National Government shall meet this issue, we all may at the same time rejoice in that spirit of optimism and reconstruction activity which is prevalent throughout the whole flooded region. Some of the letters we are publishing today indicative of this spirit are worthy of the best traditions of the great upbuilding forces of America.

AMERICA CONTRIBUTED \$86,000,000 FOR NEAR EAST RELIEF.

THE Near East Relief wired the MANUFACTURERS RECORD in response to a query:

"American people contributed \$86,007,392 up to April 30." That vast sum has been freely poured out by the American people for the benefit of the sufferers in the Near East.

What will the American people do for the sufferers in their own country? The \$12,000,000 that has been raised by the Red Cross for this work is a mere bagatelle as to what is needed.

Will Congress heed this situation, and meet it by a special session? That is a question the people of this country may well ask themselves and ask the Administration.

A CHANCE FOR SOME NEW ENGLAND PHILANTHROPISTS.

A GOOD many New England people have for generations had a peculiar affection for the negro—when at a distance. There has been a certain amount of long distance philanthropy by some New Englanders for the negroes which now has an opportunity to express itself as never before since the Civil War days. Tens of thousands of negroes are among the sufferers from the overflow in the Mississippi Valley. Their homes have been washed away; their livestock destroyed, and they are wholly dependent upon the white people of that section with such help as the Red Cross can give them, to get started in life again. There are some few New England people whose philanthropy is stirred by the needs of negroes to a far greater extent than it is stirred by the needs of the whites. For this class of people here is their opportunity, the greatest they have ever had. We invite their attention to the subject.

KEEP THE CHURCH OUT OF POLITICS.

A LETTER from a Southern business man to Hon. Arthur M. Free, Member of Congress, reads:

"I note in MANUFACTURERS RECORD of April 21 that you had introduced a resolution for the investigation of the activities of the Federal Council of the Churches of Christ in America.

"I wish to commend your action, and trust you will leave no stone unturned to have this investigation made. I don't believe this organization represents 2000 members of the Methodist Episcopal Church South, although we have some modernistic officials who are boring from within at the expense of the laity. They are living off the fat of the land, and obtaining their salaries under false pretense; for, instead of preaching the Gospel of Christ, they are sowing seed of disloyalty and doing their utmost to put the Churches in political control of our country. Some years ago, when this organization was effected, one of the organizers said: 'We are going to make the Pope sit up and take notice.' This would indicate their motives."

A GLORIOUS ACHIEVEMENT.

A N American farm boy of Swedish descent has flown from New York to Paris in a little more than 33 hours. These are the bare facts of a glorious achievement which has thrilled the world.

Through his heroic act of spanning the Atlantic ocean and parts of two continents on the wings of an airplane, Charles Lindbergh, the 25-year-old United States Air Mail pilot—who was raised on a farm, and is the son of the late Representative Lindbergh of Minnesota—has written his name in history along with Columbus and other illustrious navigators of the past.

Aviation has made marvelous strides since the Wright brothers' feeble attempts at flight among the sand dunes of the North Carolina coast some 20 years ago. There have been discouraging setbacks and tragedy has stalked throughout the progressive steps of the airplanes development, the latest failure being that of the two intrepid French airmen who attempted to cross the Atlantic. It was only a few short years ago that another Frenchman, Herbert Latham, suddenly startled the world with his attempt to fly from France across the English channel. Latham failed in his first effort when he was within a mile or so of the English coast, but it was not long afterward that the channel was successfully crossed, and today we see the progress aviation has made in the fleet of commercial airplanes operating between England and the continent.

To cross the Atlantic is a bigger problem than crossing the English channel, but at the rate of development of the construction of flying machines we will soon see this continent and others connected with air lines.

Man's ingenuity and courage is making the world smaller. In the last hundred years or so he has cut communication from a matter of months between distant points to minutes by the telegraph, and now it is cut to seconds by the telephone and wireless. Columbus shortened world distances when he sailed due west to reach the East. Fulton brought continents closer when he invented the steamboat, and the world airmen are making the whole world smaller, culminating in Lindbergh's cutting of the distance from New York to Paris to 33½ hours. With this annihilation of space continuing it will mean a better understanding between the peoples of the world, for free and quick methods of transportation and communication are the greatest aids to the peace of the world. surely man is fulfilling the Divine Command to "Subdue the earth."

Lindbergh in his flight to Paris and his immediate call upon the mother of Nungesser, which touched the heart of every Frenchman, and the influence which he has brought to bear in the whole situation, will do more to cement the friendship of America and France than anything that has happened for many a long day.

It is a magnificent tribute to the power of one man to achieve a marvelous good for the benefit of two nations.

KNOW THE SOUTH.

C. W. PAUL, professor of public speaking at the University of Virginia, in acknowledging receipt of a copy of the Blue Book of Southern Progress, says:

"I shall recommend it as an authoritative source of information for entrants to the 'Know the South' contest."

If all the students in the universities and colleges of the South would study the Blue Book of Southern Progress, they would gain a new conception of the wonders of the South and the marvelous progress which is ahead for this section.

“Our Folks in the Mississippi Valley Will See This Thing Through to the Finish.”

L. O. CROSBY, the flood dictator of Mississippi and in many respects one of the foremost aggressive business men in that State working for its upbuilding, graphically told in an interview published in the Daily Bulletin of the MANUFACTURERS RECORD last Thursday of the spirit, the all-prevailing, all-conquering spirit of the South. Whenever adversity faces this section in any form, be it storm or flood or deflation, the people rise in all their might, with an all-powerful energy and initiative equal to that displayed on the battlefields of the Civil War, 1861 to 1865, against the overwhelming odds of men and money against the armies of the South. Mr Crosby in a statement for this paper, which should be written in letters of gold in every business office in the country, which should be taught to every boy and girl in the South said:

“The thought—the one all-sharing thought—in the mind of every man in this stricken area is to get back to work and to restore the vast empire of agriculture that has been laid waste by the water. Our people, instead of being cowed, are just now beginning to fight. Stories going out of the South telling of the great Southern catastrophe fail to give a complete picture of the situation. The South is not crushed. The Mississippi Valley, a large, rich section of America, a relatively small portion of the South, seeing the silver lining in the cloud of disaster, is going to overcome all obstacles and resume the course of agricultural progress that marks this vicinity for high destiny in American progress. It is a blessing in disguise. Our people will make the most of it. They will come back. Of that make no mistake. We are used to adverse advertising. People of other sections may have a very warped idea of our plight. But please tell, through the Manufacturers Record, the people of America that our folks in the Mississippi Valley will see this thing through to the finish.”

What Mr. Crosby said is being voiced by many other business men and public officials throughout the flooded regions. That ringing sentence of Governor Martineau of Arkansas, which we published a few weeks ago, saying that “across the flood, Arkansas sees only the rainbow,” is typical of this spirit. The Governors of Mississippi and Louisiana, city officials and business men have all voiced the same kind of enthusiasm expressed by Governor Martineau and Mr. Crosby. This is a spirit which should win the highest appreciation of the business people of the entire country; they should hail with the highest commendation that spirit which cannot be downed, which even amid the flood waters lifts the banner of energy and initiative and says, “We will go forward.” This spirit is voiced in many letters that are coming to the MANUFACTURERS RECORD every day. Never have we seen a more superb illustration of the unconquerable initiative and energy which, under such adverse conditions, are always developed in the people of the South, as in all other parts of America. They never accept defeat; they never are downed. Their spirit is expressed in the story told of a farmer who, when the flood waters rose from the first story to the second story and he took his wife out on the roof and the house floated away, in alarm with weeping eyes she said, “Our house is being swept from its foundation.”

“Never mind,” said the old man, “it never was well located; perhaps it will settle on a better spot.”

And, then, as the favored cow was swept past, the old

woman bemoaned the loss of that one great asset of their life.

“Never mind,” said old optimist, “the cow was going dry anyway, and some day we will get a better one.” As the chickens floated by the moving house again, the old optimist spoke with a cheering word to his wife, “Well those were not very good layers anyway, and we will select a better breed next time.”

This is the spirit of optimism which prevails throughout the flood regions. There is no cringing, no weeping from pessimism, but an all-prevailing spirit of optimism, with a determination that, as rapidly as the flood waters cease and dry ground appears, they will return to their homes, or to the spot on which their homes once stood, and in some way rebuild and once more start the plow for the planting season. Running through many of the letters which are coming to the MANUFACTURERS RECORD there is a profound expression of thanksgiving to the Almighty that the disaster has not been worse, that comparatively few lives have been lost and that He will guide these people into a larger and better life.

No pen can fully tell the story, the story of heroism of dauntless courage by young and old, by blacks as well as whites, a story which ennobles human nature itself.

THE JACKSONVILLE TIMES UNION UNDERESTIMATES THE FLOOD SITUATION.

IN the Jacksonville Times Union of May 17 is a rather curious editorial for a Southern paper, criticising private individuals and members of Congress who have asked the President to call a special session of Congress. It admits that much havoc has been wrought, much valuable property destroyed, and that there has been “inundation of tens of thousands of acres of farm land.”

The Times Union seems to be unaware of the fact that 17,000 acres of land, much of it the richest in Mississippi, Louisiana and Arkansas, is under water, and in many places the water is 10 to 20 feet deep. It apparently overlooks the fact that 500,000 people have been made homeless; their entire means of making a living destroyed; their dwellings, their livestock and their agricultural implements washed away or destroyed. These 500,000 people, and the number will probably be greatly increased before this article is published, are living in refugee camps, in many cases under most adverse conditions, despite the heroic work that the Red Cross is doing.

It asks if there is any possible assurance out of past experience that Congress, if called in special session, could or would do more than is being done to alleviate and ameliorate conditions as much as possible, and to that question it answers: “None whatever.”

It is hardly conceivable that the man who wrote that editorial had any conception whatever that an area of rich land as large as the States of Maryland and Massachusetts combined is under water; that suffering indescribably bad is being endured; that disease is already beginning to spread in some of these camps; that before these 500,000 people there is appalling poverty and a lack of opportunity to return to work.

It is inconceivable that Congress should be thus slandered and denied the intelligence to make necessary liberal appropriations to meet this situation, for it is impossible for

the Red Cross to care for all of these people and start them again in life.

Further on, the Times Union says: "Fair-minded, practical citizens who have no axes to grind, no desire to advertise themselves and their personal business, as some few individuals are doing, are giving full credit to the President for resisting the persistent calls for an extra session of Congress, as in his answer to Senator Reed's telegram, urging that a special session be called, that 'nothing is being left undone that can be done for the relief of those in the stricken area.'" When the President signed that message to Senator Reed, he, of course, thought it was true. But, day after day, the magnitude of this awful catastrophe has grown, and what might have been true two weeks ago is incorrect today. If the Times Union had taken the trouble to interview Florida's own honored Senator, Duncan U. Fletcher, it might have found that he is among the number who are urging upon the President a special session of Congress.

We wonder what study of the flood situation the Times Union made before it published that editorial.

THE ATLANTA CONSTITUTION TAKES A HAND AT THE UNWISDOM OF THE LETTER TO SOUTHERN INDUSTRIALISTS.

THE Atlanta Constitution in discussing the recent circular-letter sent out to the industrial interests of the South, written by Rev. Dr. Worth Tippy of New York, and who, it seems, through Bishop Cannon succeeded in getting 41 ministers of the South to sign the document—but how many refused to sign it has never been divulged—said:

"It develops just as the Constitution claimed immediately after the first publication of the very unfortunate document. While signed by a number of Southern ministers, it was prepared by a rank outsider living in the East, and was pure and simple propaganda designed to disturb mill labor in the South, and to disrupt the stability of the same in the interest of arresting the textile tide from New England to the South.

"It is a sad illustration of the carelessness exercised by so many good people in signing petitions and other papers dealing with great economic and human problems, about which they frequently have no direct information.

"It ought to serve a useful lesson for the ministers who signed the mill village statement are paying the price in severe criticism, not only in the South, but throughout the nation."

In another issue, commenting on the same subject, the Constitution said:

"One of the notable addresses delivered before the Georgia Cotton Manufacturers' Association, in convention in Atlanta last week, was by W. D. Anderson, president of the Bibb Manufacturing Company of Macon.

"Referring to a recent statement by a large number of Southern bishops and other ecclesiastics in which severe criticism was made of mill villages in the South, Mr. Anderson said:

"I make bold to say that taking our industry as a whole, the workers do their tasks under as favorable shop conditions as are to be found anywhere in the world. I believe most of you are constantly studying to improve these conditions. I believe that, taken as a whole, our workers live in better homes and enjoy more of the conveniences of modern civilization than any set of workers to be found in any other industry. On the whole, the religious, educational and social conditions in our mill villages are superior to those found either in the rural districts or in the congested sections of cities that are usually inhabited by the working class."

"When the statement in question was first published, broadcast as it naturally was through the New England cotton mill States, the Constitution was equally bold to declare that these good men had undoubtedly been imposed upon by propagandists of that section who had grabbed at every straw to arrest the inevitable textile tide to the South. It said then, and it reiterates, that the mill villages of the South are incomparable, in comfort, sanitation, housing, education, culture and community life, with those of any other section."

AN UNCHRISTIAN ATTACK BY A RELIGIOUS PAPER AGAINST PRESIDENT EDGERTON OF THE NATIONAL ASSOCIATION OF MANUFACTURERS.

THE Pittsburgh Christian Advocate of May 5 in an editorial by the contributing editor, H. E. Luccock, in bitter denunciation of President John E. Edgerton of the National Association of Manufacturers because of his reply to the circular letter of Southern bishops and ministers, pours forth a vicious and wholly incorrect attack. It charges Mr. Edgerton with having made a reply "in a spirit of sneering contempt of any attempt to incarnate Christian principles in industrial relations," and adds: "This is exactly the kind of reply one would have expected, judging from past performances of both the Manufacturers' Association and its president. They have shown a strong partiality for sneers and an imperviousness to human rights in industry. To these gentlemen, the industry situation in the South is perfect." And much more of the same kind.

For an unchristian spirit, for an untruthful statement in regard to the reply of Mr. Edgerton, we have rarely seen anything quite equal to this editorial in the Pittsburgh Christian Advocate. There is nothing Christian in the spirit of the reply, nothing in it which would advance the cause of Christianity among the thinking men of any class and any section. It is a pitiful exposure of a viciousness of temper which surely should not find expression through so-called religious publications. Such temper, such unfair attacks on a Christian business man such as Mr. Edgerton only serves to turn thoughtful Christian men away from church activities.

In a letter to the editor of that paper, the editor of the MANUFACTURERS RECORD wrote as follows:

"In your issue of May 5, there was an editorial entitled, 'Little Dollars in the Dark,' vigorously criticizing Mr. John E. Edgerton, president of the National Association of Manufacturers. As Mr. Edgerton a few days ago went through a severe operation in the hospital at Nashville, and therefore cannot, of course, see your article and reply for himself, I want to take the liberty of giving you a few facts in regard to him.

"Mr Edgerton is not only a man of deep religious life and an active Methodist but also was chairman of the Centenary Committee in 1919 or 1920, which carried on the campaign for the big subscription raised. Mr. Edgerton has the rather unique distinction of having a chapel in his woolen mill at Lebanon, Tenn., where his employees meet for religious service every morning before they go to work. About 90 per cent. of his employees are Christians, so I recently learned. He has devoted his life very largely to Christian work and to the advancement of his own employees and of industrial workers generally.

"Under the circumstances, I think you can recognize the fact that you did Mr. Edgerton a very great injustice in your editorial criticism. If the writer of your editorial knew Mr. Edgerton, knew the character of the man, the work that he is doing for the welfare of other people, he never would have written such an article. That editorial reminds me of the old statement, when a man expressed the thought that he hated someone, and a friend said, 'If you knew the man, you would not hate him. Let me bring you together.' 'No,' said the other man, 'I don't care to know him, because I want to continue to hate him.'

"In justice to Mr. Edgerton, I trust that you will give space to this letter. If he were not in the hospital, too sick to reply, I am sure he would convince you of the error of your way and as a personal friend I am simply writing in his defense."

An Appeal to the Nation by Wilbur Wakeman.

[*Mr. Wakeman, as most of our readers well know, was for 30 or 40 years secretary of the American Protective Tariff League and editor of the American Economist. Retiring from that position recently for a much needed rest, he has returned from a trip made just ahead of the worst of the flood in the Mississippi River section. He went immediately to Washington to plead with the Administration and Government officials, generally, to realize the magnitude of this disaster and to work for a special session. With no other motive than that of humanitarianism and the desire to conserve the prosperity of America, Mr. Wakeman is devoting his time in Washington to this question. Coming to the office of the MANUFACTURERS RECORD to tell what he had personally seen, he was asked to put into a brief statement his impression of the situation. It follows.—Editor MANUFACTURERS RECORD.*]

By WILBUR F. WAKEMAN, New York.

AMERICAN sufferers call for help. The great productive heart of our country, from Cairo, Ill., to the Gulf of Mexico, carrying the drainage of 30 States with more than 500,000 people homeless and probably 10,000,000 acres of land rendered useless for the year, is paralyzed.

From South Pass, on the Gulf of Mexico, to New Orleans, through Louisiana, Arkansas and Missouri, I personally was just ahead of—or, just behind—the evidences of devastation and desolation of the great Mississippi flood. Coming northward and eastward, those with whom I came in contact seemed to have no comprehension of the terrible devastation which has been going on and for which our American fellow citizens in the Mississippi Delta are in no wise responsible. Can one appreciate 1,000,000 cubic feet of water passing a given point each second? That is current force for hundreds of miles, as the mighty crest of the Mississippi winds its snakelike body throughout this vast region. Of course, rescue of human life is first, and the care and relief of the 500,000 homeless people is second.

The flood and its results have become a national catastrophe, and consequently must be looked after by the National Government. It is natural for a stricken community to look to the Government for help, inspiration and rehabilitation. Just as in the time of war our people subscribed to the Liberty bonds to give support to the men at the front, so today our people have rallied in relief through the splendid work of the Red Cross for the temporary needs of this great body of helpless American citizens. But, we must go beyond this. It requires the power and authority of Congress for rehabilitation of our people, who do not want charity, but do want credit to rebuild through their own efforts.

The economic side of the question is purely national, for the result of this flood affects seriously production in all lines. To illustrate: The entire cotton fields along the Mississippi Delta are wiped out; all the planted sugar in Louisiana is gone; almost all livestock is drowned; the accumulated lumber has been washed away, and the productions of the soil for the home are gone. I remember one instance, where a great strawberry region, which last year produced 13,000 carloads for shipment north, was completely ruined. At another branch, 17,000,000 feet of hardwood lumber was lost. I mention these illustrations simply to impress upon every red-blooded American the necessity for national cooperation. Which brings me to the necessity of an immediate special session of Congress; for, rehabilitation and financial cooperation must come from the Government, supplemented by the cooperation of the nearby States.

If any individual takes advantage of the horrible conditions prevailing, he ought to be shot, and if any corporation takes

advantage of them it ought to be put out of business. The Congress is the only authority which can be effective and complete. People say to me, "Oh, there will be too much politics in it." If any member of Congress takes advantage of this national catastrophe to inject politics into the situation, it will be the end of his political life. I earnestly urge that every influence be brought to bear upon President Coolidge to immediately assemble Congress for full authority to cooperate to the limit in rehabilitation of this unheard-of devastation, which covers a territory greater than the States of Maryland and Massachusetts combined.

A COMBINATION OF ENGINEERING ABILITY NEEDED.

UGH L. COOPER & CO., INC., of New York, in the course of a letter to the MANUFACTURERS RECORD about the flood situation, writes:

"We believe the MANUFACTURERS RECORD is performing a real service to the nation in urging consideration of this situation by private engineering organizations, and that the problem is of sufficient magnitude to warrant a painstaking and exhaustive study of all the contributing facts, with a view to instituting remedial works under unified auspices, embracing private as well as public engineering knowledge."

Colonel Cooper himself is in Russia, organizing the construction of a big hydro-electric development on the Dnieper River, but is being kept informed by cable of the situation in the flooded district.

A NEGRO WHO HAS FAITH IN AMERICAN CAPITALISTS.

THE Rev. Ad Wimbs, the negro minister whose paper published in the interest of the negroes on the great Scott plantations of Mississippi, and whose small sheet we republished last week as a curiosity, writes an interesting letter from Camp Roberts, one of the refugee camps in Mississippi, as follows:

"It is needless for me to say that I deeply appreciated your letter of recent date, addressed to me at Scott, but delivered to me at the temporary postoffice here, expressing the deep sympathy of yourself and the entire staff of the MANUFACTURERS RECORD, with our people in our hours of trouble and also your tender of your services for our help now and in the future. I have faith to believe that the American capitalist will not allow so fertile a section as ours to go to waste. I have faith to believe that American engineers and American dollars will eventually control the flood waters of the Mississippi. Levee building must be freed from partisan politics, sectional strife and local bickerings."

Why a Special Session of Congress Is Needed for Immediate Financial Relief.

IN the MANUFACTURERS RECORD of last week letters were published from a large number of members of the Senate and House of Representatives, pro and con, on a special session of Congress to meet the flood situation.

President Coolidge has heretofore taken a pronounced view against a special session. The Washington correspondent of the Baltimore Sun—and the same intimation was published in the New York papers—said:

"In this general connection the Administration showed interest in the canvass made by the MANUFACTURERS RECORD of Baltimore of the membership of the House and Senate on the question of an extra session. The results of this survey were received in Washington today and showed a sharp division of sentiment among members of Congress on the matter."

This correspondent also indicated that the President might be moved to call Congress in session in October, and on that point said:

"The President also foresees long delay in getting a new and unorganized Congress into working order, if that body should be called to Washington immediately. Parliamentary organization will have to come in time, however, and the President is said to see sound reasons why Congress might meet in October, organize and deal with the flood emergency, then be in a comfortable position to proceed with the legislation to be considered at the regular session."

Since the last issue we have received a large number of letters from other members of Congress which we are publishing today. Those who oppose a special session seem to indicate that the main reason against it would be that Congress could not act promptly in planning for permanent improvements to make certain that such an overflow should never again occur. Apparently they overlooked the necessity of meeting by a liberal appropriation by Congress the tremendous problem of how to care for the 500,000 homeless people who are in refugee camps.

This flood disaster, as we have repeatedly said, is due to the failure of the National Government to meet the situation which has for years been vigorously pointed out to Congress, but which Congress never had the courage to face. The Federal Government owns the control of every navigable river in the country. It dominates completely, for instance, the Mississippi and its navigable tributaries. No bridge can be built across the river without its permission. But when it comes to controlling the waters of these rivers so as to safeguard the people along their banks it utterly fails. So long as the river behaves itself it is Government owned and controlled. When the river turns loose in misbehavior it has heretofore been disowned by the Federal Government. Through the failure to safeguard against such a disaster as the Mississippi Valley is now enduring, there are 500,000 people in refugee camps. A considerable proportion of them have had their houses swept away, their livestock, cattle, hogs, fowls drowned, their furniture gone or destroyed, and likewise their agricultural implements. These people must be fed and clothed. They must be re-established in reconstructed or new homes. It is too big a task for the Red Cross, and the receipts of the Red Cross come from the generous

hearted people of the nation, while a very large proportion contribute nothing.

The responsibility rests upon the Federal Government, and the Federal Government should assume the burden. It is for this reason that the MANUFACTURERS RECORD has urged that a special session of Congress be called to take into consideration the whole question of financing the sufferers by the flood—a flood due to non-protection by the Federal Government.

Every day counts, for every day means loss of time in rehabilitating these people and in preparing for such reports as could be made to Congress next December for permanent control of the river.

Some of the Congressmen who oppose calling a special session freely admit that they are afraid so much red-hot politics would be injected into a special session that no good could be accomplished. But will not red-hot politics be injected into the regular session of Congress next winter? Will not politics be played so thoroughly next winter that it will be difficult for Congress to settle down to the real things that ought to be done in connection with this river situation?

Is the President afraid of Congress? Does he think that Congressmen facing this situation would be so recreant to their duty that they would not confine their work strictly to the Mississippi River situation and then adjourn? Is it not a reflection which Congressmen place upon their fellow Congressmen when they decline to favor a special session because they fear that politics would be injected into everything, and that instead of confining the work to this flood problem Congress would continue endless debates for the purpose of making political capital for or against this or that party, or this or that candidate?

We have faith enough in the honor and integrity of members of Congress to believe that if they were called into immediate session for the particular purpose of settling this one great problem of restoration to the flood sufferers and of authorizing a commission to bring before Congress next session a report as to how to meet the whole Mississippi River problem, that members of both parties would consider they were violating their oath of office if they turned a special session into a political campaign. Though President Coolidge has expressed himself as opposed to a special session, it must be remembered that that was before the magnitude of this disaster was known, and before he could have been duly acquainted with the needs of the hour. We do not believe that President Coolidge has not that sturdy quality of character which would justify him in his own mind in reversing himself if he found that he was in error. We believe, therefore, that this matter should still be pressed urgently upon him by the people of all sections who realize the whole situation. A promise given now by Mr. Coolidge, or through Congress, of financial help for the sufferers and the full strength of the Administration later on in behalf of a permanent and ample protection of the flooded districts, would be worth untold millions to the morale and to the financial and general business interests of that vast section of our country.

For many years Congress has made appropriations for sufferers from floods and earthquakes and other disasters; but none of these, nor all of them combined so far as this country is concerned have equalled in magnitude the suffering involved, and for none of them was the Government responsible to such an extent as in this Mississippi flood disaster. Surely if Congress has made such appropriations as in the following list, it should promptly and liberally

contribute to the homeless people from the flood in the Mississippi Valley. Here, in itself, is abundant reason for calling a special session of Congress in order to act promptly, for every day of delayed action intensifies the suffering.

Special Appropriations by Congress for Many Years for Sufferers From Floods and Other Disasters.

Amount	Date	Description	Period
\$50,000	May 8, 1812	Secretary of war authorized to use Government vessels for transportation and distribution of rations.....	Mar. 11, 1882
	Feb. 17, 1815	Mississippi River flood sufferers, relief by furnishing relief to..	Mar. 21, 1882
	Mar. 19, 1836	Mississippi River flood sufferers, purchase and distribution of subsistence stores to.....	Apr. 1, 1882
	Feb. 1, 1836	Ohio River flood sufferers, purchase and distribution of subsistence stores, clothing, etc., to	Feb. 10, 1875
	Feb. 19, 1803	Ohio River flood sufferers relief	Feb. 12, 1884
	Mar. 19, 1804	Mississippi River flood sufferers, authority to use unexpended balance of \$125,000 of above apprn, to furnish rations to...	Feb. 15, 1884
20,000	Jan. 24, 1827	Yellow fever and cholera, prevention of.....	Mar. 27, 1884
		Yellow fever, eradication of.....	Sept. 26, 1888
	Mar. 3, 1847	Japanese crew, recognition of kind treatment of.....	Oct. 12, 1888
200,000	Feb. 16, 1863	Arkansas, Mississippi and Louisiana, purchase of tents for flood sufferers.....	May 24, 1888
2,000	July 4, 1864	Mississippi River flood sufferers, authority to hire boats from appropriation for improvement of Mississippi River.....	Mar. 31, 1890
	July 4, 1866	Mississippi River flood sufferers, relief to.....	Apr. 3, 1890
2,500	Mar. 17, 1866	Oklahoma, certain unexpended balances made available for the relief of citizens of, made destitute by drouth.....	Apr. 21, 1890
	July 27, 1866	Potomac River, removal of ice gorge	Sept. 1, 1890
	Feb. 22, 1867	For Theater disaster, payment to heirs or legal representatives of persons killed in.....	Feb. 15, 1895
	Mar. 29, 1867	Ford Theater disaster, payment to employes on account of....	Mar. 2, 1895
	Mar. 30, 1867	India, authority to transport supplies to poor of.....	June 8, 1896
50,000	Mar. 30, 1867	India, use of vessels authorized to aid suffering poor.....	Feb. 19, 1897
	Jan. 31, 1868	Mississippi River flood sufferers, relief to.....	June 1, 1897
	Feb. 10, 1871	Cuba, relief of citizens of the United States in.....	Apr. 7, 1897
	Apr. 5, 1872	Battleship Maine, payment to sufferers on account of destruction of.....	May 24, 1897
	Mar. 12, 1872	District of Columbia, prevention of spread of contagious diseases	Mar. 30, 1898
	Apr. 23, 1874	San Francisco, Cal., relief of sufferers from quake.....	Feb. 28, 1899
190,000	May 13, 1874	San Francisco, Cal., relief of sufferers from quake.....	Apr. 19, 1906
30,000	Jan. 25, 1875	Jamaica, relief of sufferers from earthquake and fire.....	Apr. 24, 1906
		clothing, food, etc. from Naval stores	June 18, 1906
		Italy, relief of citizens of.....	May 11, 1908
		\$80,000	Jan. 5, 1909

	Amount	Date
Ohio River, removal of ice gorges	\$10,000	Jan. 19, 1910
Costa Rica, sufferers from earthquake, tents, blankets, etc., by Army, Navy and Panama Canal		
Imperial Valley, Cal., protection of lands and property from Colorado River.....	1,000,000	June 25, 1910
China, relief of famine sufferers	50,000	Feb. 11, 1911
Mississippi valleys, relief of flood sufferers in.....	1,239,179	May 9, 1912
Mississippi River, between head of passes and Cape Girardeau maintaining and protecting levees	350,000	Apr. 3, 1912
Mississippi River and tributaries, remaining and protecting levees against impending floods	300,000	Apr. 16, 1912
Mississippi River and Tributaries, authority to use \$1,500,000 for repair, etc., of levees against floods.....		Apr. 30, 1912
Middle West flood sufferers, reimbursement to life-saving appropriations for aid to.....	5,000	Oct. 22, 1913
Mississippi and Ohio valleys Peachtree, Alabama and Nebraska relief of sufferers from floods, tornadoes and conflagrations, department appropriations	654,448.49	Oct. 22, 1913
Action of the President in extending aid from various appropriations ratified.....		Oct. 22, 1913
Mississippi Valley flood sufferers 1913, credit in accounts of certain river and harbor appropriations for expenditures....	34,192.35	Oct. 22, 1913
Mississippi Valley flood sufferers 1913, medical supplies, action of the President in issuing, ratified	8,239.40	Oct. 22, 1913
Ohio flood sufferers and Indiana and on the Ohio and Mississippi rivers, reimbursement to certain naval appropriations for relief.....	130,940.38	Oct. 22, 1913
Salem, Mass., relief to sufferers from fire at (Expended \$47,140.10)	200,000	Aug. 1, 1914
Paris, Texas, relief to sufferers from fire at, tents, cots, etc., and supplies to be furnished by War Department.....		Apr. 11, 1916
North Carolina, South Carolina, Georgia, Alabama, Florida, Tennessee and Mississippi flood sufferers, supply of seeds to be furnished and Army supplies by Quartermaster and Medical departments of the Army	540,000	Aug. 3, 1916
West Virginia, relief of flood sufferers, provisions of the resolution appropriating \$540,000 extended to W. Virginia...		Aug. 24, 1916
European sufferers to be reimbursed so far as possible.....	100,000,000	Feb. 25, 1919
European sufferers to be reimbursed so far as possible.....	5,000,000 barrels of flour	Mar. 30, 1920
Russia, food for starving.....	\$20,000,000	Dec. 22, 1921
Russia, medicine and supplies..	4,000,000	Jan. 20, 1922
Corpus Christi, Texas, flood sufferers	82,853.15	Mar. 20, 1922
Pueblo, Col., flood sufferers much as deemed necessary.....		Mar. 30, 1922
House Document No. 195 Sixty-eighth Congress, first session..	Total expenditures by Navy Department for Japanese relief on account of earthquake in September, 1923, authorized by the President will not exceed \$700,000.	

Congressman Berger's Views on Flood Situation.

Hon. Victor L. Berger of Milwaukee, as he wired us last week, was first opposed to a special session of Congress, but then reversed his views when he comprehended the full situation. At first he was afraid that both parties would play politics, but when he saw the magnitude of the whole disaster he wired the MANUFACTURERS RECORD in accordance with the telegram we published last week. In the course of a letter Mr. Berger writes:

"Now I am not so convinced of the overwhelming ability of our Army engineers as is the average American—these engineers have proven to be a complete failure as to the regulation of the Mississippi and other big rivers in our country—yet, I believe that after all we ought to have their report before us. The Army engineers seem to be wedded to levees. The trouble is that the more levees we build the more restricted becomes the stream. Also the Mississippi, by carrying an immense amount of silt, is ever lifting itself above the surrounding country. Therefore, levees and revetments are but temporary remedies. No matter how high the levees are built, sooner or later the river gets the best of them.

"The fact of the case is that we must go to the root of the matter. We must remedy the insane waste of American forests that had formed a natural reservoir for water, and also the reckless drying up of all swamps. Some swamps are as necessary for the preservation of healthy natural conditions of our country as glands are for the healthy natural conditions of the human body. If we do not look out, this country will become a second China. We must not only have a national water policy, but also a national forest policy.

"I do not believe that by simply elevating the revetments and dikes every year, as the Army engineers propose, we will control the floods—nor will spillways alone help. Forestry and preservation of swamp lands must go together with reservoirs for the storage of flood waters which will give additional water when the normal flow is low. All of this can be so arranged as not only to help irrigation and furnish electric power, but also to prevent soil erosion and other waste. These things cannot, of course, be discussed within the scope of a letter."

Mr. Johnson of Texas Thinks Immediate Call for Special Session Imperative.

Luther A. Johnson, Corsicana, Texas: "Your views expressed both in the editorial and in your letter to me are in harmony with mine upon this subject. It occurs to me that the President should, without delay, call a special session of Congress and I have sent him, on this date, the following telegram:

"I have been loath to suggest calling of special session of Congress to deal with flood situation, but conditions continue to grow worse and it is now a national calamity of such magnitude that private agencies are inadequate to cope therewith and to furnish the needed relief. I, therefore, respectfully request you to call special session of Congress for this purpose."

"Permit me to congratulate and commend you for your efforts in this matter."

"In a Special or Regular Session Loyalty to the Government and Loyalty to Humanity Will Supercede Any Politician's Ambition to Exploit Himself or His Party."

Congressman W. D. Boies of Idaho writes from Washington, D. C.: "In my opinion the President is entitled to use his best judgment after he shall have received the report that Secretary Hoover will make of this far reaching and awful situation. This is not a time to nag or criticise the President.

"When Congress does convene, either in regular or special session, loyalty to the government and loyalty to humanity will supercede any politician's ambition to exploit himself or his party. The obligation to do the right thing in connection with the legislation on this most important subject is not a matter of disputation—the best there is in American citizenship must prevail."

**An Interesting Discussion of the Situation, With
Approval of President Coolidge's Refusal to
Call Special Session.**

John McDuffie of Alabama, of the Committee on Rivers and Harbors, House of Representatives: "I thank you for your recent letter with enclosure which has just reached my office and which I have read with much interest. I have always found your writings very interesting and instructive. The MANUFACTURERS RECORD has always been and will continue to be of great service to the country.

"Without doubt, the entire country recognizes the outstanding national problem involved in controlling the flood waters of the Mississippi River. You are aware, I am sure, that the Congress has voted \$10,000,000 a year for the last six years for levee construction in the Mississippi delta region. This amount was used with a like sum contributed by local interests and expended under the direction of the Mississippi River Commission.

"While I am sure every member of the Congress feels as I do, that everything humanly possible should be done, and be done, in this great emergency, which is national in its scope. I can but have some doubt as to the necessity for convening the Congress in special session. There are precedents for expenditures from the Public Treasury and the extension of credit, etc., in cases of extreme emergency, without specific authority of law. In each case the Congress has very promptly approved and ratified such acts and expenditures, and there can be no doubt that the present Congress would do likewise in the case of the Mississippi Valley catastrophe.

"While the Congress could meet and appropriate funds for the stricken area, nothing else would be accomplished. The construction of permanent works for reducing the flood hazard of the Mississippi River is distinctly a problem for our best engineering experts. The membership of Congress must have facts and data, the result of a careful study and survey, upon which to formulate plans in a practical and effective way for this monumental task. It will entail some time and probably more than six months in my judgment to make the proper study of the problem from an engineering standpoint. If I am correct in this assumption, and if it be true that credit and sufficient money can now be used for the stricken territory, can anything more be accomplished by an extra session of Congress? Would not the cost of an extra session of Congress be helpful, to some extent, in giving relief to many people, if such an amount is appropriated for that purpose in regular session? I hope you understand that I would not have our rich Government fail in its duty in protecting the lives of our citizens at a time like this. If necessary to get the funds a special session of Congress must be called, a different picture is presented.

"I hope I may be pardoned for calling your attention in this letter to the last River and Harbor Act of the Congress, approved in January, 1927. In this Act there is a provision which I have sponsored for several years authorizing the expenditure of more than \$7,000,000, under the direction of the Secretary of War and the Chief of Engineers, United States Army, for general surveys of all the navigable streams of the country. The surveys contemplated are similar to the one now about to be completed on the Tennessee, where a detailed study of its stream has revealed the possible development of more than 3,000,000 horsepower outside of the Muscle Shoals project. The purpose of the Act is to determine the possibilities of every stream for flood control, navigation and power. The failure of the last Deficiency bill prevented the use of funds with which to begin this work on a large scale during this year. The provision for the general surveys is regarded by many as a great step toward conservation in America. No one knows how much power our streams will develop if each stream is developed as a unit to its maximum capacity. It follows that the building of reservoirs for storage of flood waters with which to generate power means the control of floods. We have just entered the electrical age and no one can visualize the possibilities of additional uses of our rivers for power purposes.

"May I further suggest that the chief of engineers always carries what is termed an emergency fund. This fund may be used in emergency cases. While it may be only five or six millions, I am sure it can be used temporarily in the Mississippi Valley immediately, not only for such works as may be immediately necessary, but for making studies of plans for permanent flood control work. It matters not from which fund the money is expended, nor the amount used, either for surveys and studies or for granting relief in the

way of food, farming implements, livestock, etc. Surely the Congress will cheerfully ratify the expenditure in any amount by any department of the Government in aid of so many thousands of our stricken citizens.

"While I am a Democrat, living within less than 200 miles of the stricken territory, full of deepest sympathy for thousands of the best people on earth in their hours of distress, I can but believe that President Coolidge would have called the Congress in special session before this date had he not found it feasible to see that relief on the part of the Government can be granted without calling the Congress for that purpose.

"Again, I beg pardon for the length of this letter. I felt that I could not answer your question frankly without explaining my reasons for the views I entertain upon the same. I wish you continued success in the good work your publication is doing."

President Should Appoint Commission of Nationally Known Engineers, Business Men, Agriculturists and Economists to Study Mississippi Situation, Develop Plans for Submission to December Session of Congress.

Congressman Eugene Black of Texas, writing from Washington, D. C., says:

"Flood prevention along the Mississippi River is a national problem and is in fact perhaps our greatest economic problem. You are also correct in saying that Congress should vote ample funds to do the necessary work to bring about effective flood control, even though the cost figures in dollars and cents should run very large. I agree with you also in your contention that Congress should deal with the matter promptly and not in a dilatory way, but I do not agree that promptness means undue haste and I believe that to call an extra session of Congress before the flood waters have yet reached the Gulf of Mexico would be undue haste and might result in the adoption of ill-advised plans and methods.

"I think it is quite generally agreed that the backbone of any plan of flood prevention along the Mississippi will be the raising and strengthening of the levees. In addition to higher and stronger levees it has been urged by competent engineers that reservoirs must be constructed to hold back some of the onrushing flood waters and also that some bypass outlets must be constructed. I am no engineer and do not pretend to be competent to pass on these engineering problems. The immense importance of the subject, however, and of arriving at a correct solution of the problem so as to insure a wise expenditure of the public money as well as giving the people along the river adequate protection, justifies that it be studied by the very best engineers in the United States.

"I believe the President should appoint a commission composed of nationally known engineers from the Army corps of engineers and also from civilian life, with a representation also of business men, agriculturalists and economists who would serve without compensation as a patriotic duty to the nation, and whose function it would be to consider all suggested remedies for flood control. Such a commission, if appointed, should commence at once to develop plans and have them ready for submission to the next session of Congress which convenes in December.

"I believe that a report of a commission of this kind would be of great value to Congress when it takes up the problem for solution and would aid in bringing about prompt legislative action. I am therefore writing President Coolidge today and am urging him to appoint such a commission.

"Now as to temporary relief for the flood sufferers it seems to me that the generous response of the American people through the American National Red Cross Society will adequately take care of that problem. Of course if it should develop that the task is beyond the power of the Red Cross and that Federal appropriations are necessary to feed and clothe the victims of the flood, then I would be in favor of calling an extra session of Congress. But I do not believe this will be necessary. I believe the American Red Cross Society will adequately meet the situation and that legislation for future flood prevention can better wait the regular session of Congress which convenes next December, rather than to undertake to do it now at an extra session."

Believes Extraordinary Session of Congress Justified—A National Problem, Not Local.

Edgar Howard, Columbus, Neb.: "I rather believe my best reply to your letter of May 10 will be to convey a clipping from my own editorial page of yesterday. I am using a portion of your editorial in my further comment on the subject of an extraordinary session of the Congress."

Mr. Howard's editorial in the Columbus (Neb.) Daily Telegram follows:

"Yesterday I received from United States Senator Reed of Missouri the following telegram:

"I am today sending to the President the following telegram: 'Since I received the reply from your secretary that you did not intend to call a special session of Congress the ravages of the flood have increased to such an extent that I feel warranted in asking whether you will not reconsider your decision. It seems now that nearly one-half million people have been driven from their homes, and that many are at least temporarily in destitute circumstances.'

"With the utmost deference I ask you to give further consideration to this grave situation." It seems to me that the disaster is of such magnitude that it cannot possibly be met by the Red Cross. I respectfully suggest that if you are of like opinion you wire the President, if you have not already done so. Please wire me your views and what you have done.'

"I had previously wired my views to President Coolidge, suggesting that the situation warrants an extraordinary session of the Congress to deal with a problem too big to be solved by voluntary contributions. Moreover, it is my view that, since the great Mississippi disaster is more than a local disaster, it ought to be dealt with nationally. If it is, as I believe, a national problem, then it should be solved by an appropriation from the national treasury, thus giving all the people a chance to contribute. Under the volunteer subscription plan the relief money comes from only a comparatively few people. It should come from all the people. It is said that President Coolidge refuses to call the Congress to action on the ground that other problems might be taken up. I have done my part as one member of the Congress to set aside that fear. In my wire to the President I asked him to call the extraordinary session for the SOLE purpose of considering and acting upon such recommendations as he might be pleased to make to the Congress in behalf of the flood sufferers. Under that wire I should regard myself in honor bound to consider no matters not specifically presented by the President. It is my understanding that more than 200 members of the Congress have given similar implied pledge to the President. Evidently he does not trust the membership of the Congress very far, as evidenced by the fact that he still refuses to call the extraordinary session."

Congressman Fulmer Opposes a Special Session, But Ignores Immediate Needs of 500,000 Homeless People.

H. P. Fulmer, Orangeburg, S. C.: "I do not think it wise just at this time for the President to call an extra session of Congress because I feel sure that what would be done, would most likely be merely discussing the situation, as stated in your editorial."

"The working out of plans whereby a recurrence of such an awful disaster might be prevented should be the first and one thought of the President and the Congress. However, any such plans cannot be worked out by the Congress until the situation is gone over very carefully by those competent to work out plans, which can best be done by going over the whole situation up and down the vast flooded area. It, therefore, appears to me that the most necessary thing for the President to do is to appoint a large number of Army engineers, not sightseers, engineers who are trained and of experience in such lines of work, to work out as early as possible and as quickly as they can a worth-while program and submit same to the Seventieth Congress. Any information connected with past flood-control work could also be submitted for consideration."

"The recent disaster is by all means a national problem, and should receive serious and favorable consideration at the hands of the Federal Government."

"It would be quite easy to have the Congress meet in extra

or special session and appropriate millions of dollars which could be wasted in unwise and hastily gotten up plans. Therefore, I think it much better to take a little time, shut off a lot of hot air, get real facts and figures, and then go ahead immediately after the convening of the Seventieth Congress in December."

Congressman Dempsey of New York Opposes a Special Session, But Strongly Favors Comprehensive Plans.

Committee on Rivers and Harbors.
House of Representatives.

Lockport, N. Y., May 16.

Editor Manufacturers Record:

I am enclosing copy of a letter which I have written General Jadwin on the subject of the disastrous floods on the Mississippi. This letter fully explains my views.

A special session of Congress could do nothing more at the moment than appropriate money for the relief of the flood sufferers. This is, of course, of great importance, but I imagine the country will rise to the emergency and that this need will be fully met by voluntary contributions.

On the other hand, to hurry into the adoption of measures to prevent the recurrence of such floods without adequate study and consideration would be most unwise; we would adopt an ill-considered scheme unlikely to accomplish the very great object in view. The matter requires thought and study, and considering the intricacy and difficulty of the questions involved, and that so far we have made a failure in our attempt to solve them, the time between now and December, when Congress convenes, is all too short in which to reach a well-reasoned conclusion.

S. WALLACE DEMPSEY.

Mr. Dempsey's letters to General Jadwin follow:

"The disastrous floods on the Mississippi have created an entirely new situation which must be met by prompt action by Congress. We have trusted the controlling the enormous body of water pouring into the Mississippi River from its numerous direct and indirect tributaries, to levees on the lower river. They have proved utterly inadequate to meet the requirements. The only alternative would seem to be to control the water on the tributaries, allowing it to flow down throughout the year, instead of for a few weeks, as it has been permitted to do. This control and gradual feeding of the water would insure the needed depth for navigation on the Mississippi and its tributaries throughout the year instead of having a period of low water in the summer months, when navigation is difficult and uneconomical; it would develop water power to a large extent; and it would also provide water for irrigation and municipal purposes.

"It seems to me that the Corps of Engineers, with its very great technical ability, should rise to the emergency, make a comprehensive study of the whole situation and prepare a plan covering the whole, ready to be submitted to Congress the day that it convenes.

"The solution of this question will so very greatly improve navigation on all of these streams that the Committee on Rivers and Harbors, of which I have the honor to be Chairman, has a vital interest in it. I therefore am at your service to participate with you and with the Corps of Engineers in this work, so that I may be prepared to present the matter fully to the House on the opening day.

"I will be glad to hear from you with regard to this matter. I will come to Washington at any time that you consider it necessary or advisable."

In a second letter Mr. Dempsey writes:

"Supplementing my earlier letter of today, regarding the floods in the Mississippi Valley, while the expense for the erection of dams and the withholding the water on the upper parts of the tributaries will be exceedingly large, an income will be derived from the water power created, and through improvements in navigation, which will go far towards repaying the entire outlay, and will perhaps not alone do this, but in the end return a profit. And it is to be borne in mind that a nation is not like an individual who is forced to figure upon an immediate or an early return, but that it can well afford to figure upon the cost as distributed over a long period and what the ultimate result will be, even if it is slow in coming."

Congressman Davey of Ohio Strongly Favors Special Session.

Martin L. Davey, Kent, Ohio: "Under ordinary circumstances I would be opposed to a special session of Congress, but this disaster is so terrible I believe it warrants immediate action by the Congress."

"Herewith I enclose copy of a telegram which I sent to President Coolidge on this subject. Let me say, however, that I do not believe this is the only phase of the problem, but I do think that conservation and reforestation, particularly reforestation, around the headwaters of streams will go very far to cure this trouble at its source. It is unquestionably true that larger and stronger levees are needed, as well as many dams far up the river and its tributaries, to help solve the problem by artificial means. Then there is the immediate problem of financial help to the hundreds of thousands of people whose homes have been wiped out and whose property has been at least partially destroyed. This is a place where Government ought to function in a special sense to meet a great emergency."

Mr. Davey's telegram to the President follows:

"The appalling flood in the Mississippi Valley leads me to make a special appeal to you to champion the cause of conservation and reforestation in order that the cause of floods may be cured at the source. What a coincidence it is that this greatest flood of recent years should be doing its deadly work in the midst of this American Forest Week, which you were thoughtful enough to proclaim according to custom in order to direct the attention of the American people to the dangers of forest devastation and the need of conservation."

"It seems to me that this flood is largely unnecessary and its more serious aspects wholly unnecessary. It is a part of the tragic price that we must pay for our folly of forest devastation. Nature provided the trees and the other vegetation to act as a reservoir and hold the water back and let it seep out gradually. When prodigal man wipes away this covering of vegetation around the headwaters of the streams and their tributaries, there can be no result except alternating floods and droughts. We are witnessing in America an increasing menace from floods and an increasing danger from inadequate water supply in other periods of the year. Nothing, it seems to me, is of greater or more far-reaching consequence than this problem."

"In the present tragic situation the American people will suffer a loss of several hundred million dollars in damage. Both the people and the Government will spend many more millions, and properly so, to relieve the distress and to repair in small part the damage. And yet we hesitate to undertake an aggressive national policy of conservation and reforestation and we hesitate to appropriate reasonable sums of money to cure the trouble at its source and to protect America from many similar disasters and other evil consequences in the future."

"This appeal is made because of the object-lesson of the present tragedy."

Senator Capper Does Not Approve of Special Session.

Arthur Capper, Topeka, Kan.: "I agree with you that the next Congress must work out a program that will make it impossible for us ever again to have as disastrous a flood as the one which has recently caused such great suffering and loss. I think this will be the most important subject before the next Congress and will receive more attention than any other subject. I do not agree with you, however, that a special session of Congress is necessary. I think it would be a great mistake for President Coolidge to call a special session. The State of Kansas is deeply interested in a flood-prevention program. We have not suffered as heavy losses as some of the States in the South, nevertheless the floods of a few weeks ago have done great damage in this State. However, I have yet to hear of anyone in Kansas who wants a special session of Congress called."

"I have looked into the situation carefully and am convinced that the immediate needs of the flood-stricken region are being well provided for. So far as the emergency problems are concerned, they are being met in a remarkably fine way under the direction of President Coolidge, Secretary Hoover, General Jadwin and other Army engineers and the American Red Cross. It will be a matter of several months before a well-considered program can be presented to Con-

gress. It is my opinion that when Congress meets in December it will have most of the information that is needed for the initial program. If Congress were to meet now or in the near future, I think a great deal of time would be wasted."

Unless Aid Is Rendered in This National Emergency, It Will Reflect on Efficiency of Our Form of Government.

In reply to the inquiry of the MANUFACTURERS RECORD as to his view of the Mississippi situation, Senator Elmer Thomas of Oklahoma, sends a copy of a letter he wrote on May 16 to President Coolidge urging that an extra session of Congress be called to give relief to the stricken sections and people. The letter in part follows:

"I am convinced that an extra session should be called and respectfully ask you to reconsider your former decision in this matter."

"In this national disaster and emergency the leaders of the respective parties could be called together, a program outlined and agreed upon and thereafter set forth in the call, so that all would understand just what business was to be considered. The country could be assured that nothing would be submitted and that nothing would be considered save the definite proposals submitted by you. The Congress would, I think, seize the opportunity of adding to its prestige by functioning efficiently and in harmony with your expressed desires."

"In my judgment unless something is done to render substantial aid to the sufferers of the South, another concrete example will be afforded of the inefficiency of our form of government."

Mrs. Norton of New Jersey Approves Special Session and Thinks Task Too Big for Red Cross Alone.

Mary T. Norton, Washington, D. C.: "I wired the President from Jersey City on Monday, respectfully requesting him to call a special session of Congress with regard to the stricken South. I feel that it is a national calamity and too tremendous a task for the Red Cross to handle alone, but through the newspapers today I am informed that the President does not think it is necessary to call Congress into a special session to act immediately on this calamity. I, personally, feel that it is imperative."

Congressman Aswell Thinks President's Delay Unwise in View of "Condition of Half a Million People As Inexpressibly Appalling."

James B. Aswell, Natchitoches, La.: "Your editorial is excellent and patriotic. An immediate session of Congress is imperative if the Government does its duty in meeting this emergency in the most widespread flood disaster in history, and in providing permanent and effective flood-control measures. Two weeks ago I earnestly appealed to the President to call an extra session. His secretary replied that none would be called. The President's inaction is inexcusable and indefensible when the condition of one-half a million people is inexpressibly appalling."

Flood Ravaged Conditions of Mississippi Valley Warrant Earliest Possible Governmental Aid.

Congressman Addison T. Smith of Idaho, chairman of Committee on Irrigation and Reclamation, writes from Washington, D. C.: "The conditions existing in the lower Mississippi Valley on account of the ravages of the flood are certainly beyond private co-operation, and the general welfare of the people in that locality would certainly warrant Governmental aid at the earliest date possible. For this reason, I feel that the President would be warranted in calling Congress in a special session for the purpose of making an appropriation."

Senator Reed Suggests a Possible Blessing by the Awakening of the Government to Its Duty and Urges Special Session.

James A. Reed, Kansas City, Mo.: "I am glad to know that the MANUFACTURERS RECORD is lending its influence toward an extra session and the permanent improvement of the Mississippi River. As you doubtless know, I have been working along that line for a good while. Perhaps the terrible disaster which the South is now suffering may in the end prove a blessing by awakening the government to its duty."

Congressman Rainey Favors an Extra Session As Making it Possible to Save a Year's Time.

Henry T. Rainey, Carrollton, Ill.: "Congress should be convened in extra session. The disaster is to be compared with other disasters, such as the San Francisco earthquake, the Galveston flood, etc. An extra session should be called for the purpose of authorizing a general flood-control survey, also for the purpose of making appropriations to repair the breaks during the present flood. Congress would then be in position to legislate in the December session. Under the basic law before an appropriation can be authorized for flood control there must be a survey ordered and completed and estimates made. An extra session would make possible flood control legislation one year earlier than would be possible otherwise."

Wants to Defer Action Until Conditions Are Less Chaotic.

Grant M. Hudson of Michigan, Washington, D. C.: "Your editorial is a strong statement of conditions and yet I believe the President, through Secretary Hoover, has a full and intimate knowledge of the conditions existing in the devastated region of the Mississippi Valley and I have felt that I was perfectly satisfied to await his judgment in the calling of a special session. Possibly the session might be called with profit early in September, but conditions yet are very chaotic and, while I am in deep sympathy and want to see remedial legislation enacted at the earliest moment possible, nothing can be done now."

Appeals to the President to Call a Special Session.

Tom D. McKeown, Ada, Okla.: "I have just wired the President telling him that if he will call a special session of Congress to consider aid for the refugees of the recent flood, that as one member of the House, I pledge myself not to act upon any matter not submitted by him to the special session.

"The disaster is appalling and widespread in its effect. We gave \$20,000,000 to the Russians and \$8,000,000 to the Chinese, besides the generosity we have shown in debt settlements with other countries. We ought to take care of our Americans. I haven't heard of any generous contributions from Russia or other nations."

Congressman Arnold of Illinois Thinks It Imperative to Act Without Delay.

William W. Arnold, Robinson, Ill.: "I am in favor of a general flood control commission composed of expert engineers, both Army and civilian, to make a thorough study of the proposition and submit results of the investigation to Congress. I have wired the President asking that he call a special session and appoint this commission and get them to working. I think it is imperative that something be done without delay."

Mr. Sabath of Illinois Strongly Urges Special Session.

A. J. Sabath, Chicago, Ill.: "I wish to advise you that I have heretofore written and wired President Coolidge requesting him to call a special session of Congress to take up the matter of flood relief and control in the Mississippi Valley."

Present Mississippi Flood a National Calamity Which Cannot Be Properly Met Through the Red Cross.

Whitmell P. Martin, Thibodaux, La.: "The control of the floods on the Mississippi River is an engineering problem and is now being carefully studied by a committee of the most eminent engineers of this country, and before Congress could act intelligently, it would be necessary to receive a report of this committee.

"I do believe, however, that the President should convene Congress in extra session for the purpose of relieving and rehabilitating approximately 500,000 people who have lost everything as a result of this flood.

"The Red Cross is doing splendid work, but the present flood is a national calamity, which cannot be met properly through charity."

Mr. Kendall of Pennsylvania Regards the Situation As Not Urgent Enough to Justify Special Session.

S. A. Kendall, Washington, D. C.: "I am of the opinion that the Mississippi River situation is not urgent enough to warrant the President's calling a special session of Congress."

No Valid Objection Conceivable Against Calling Special Session of Congress.

Senator David I. Walsh of Massachusetts: "I can conceive of no objections, except political ones (and it is inconceivable that such should be considered at this time), against the calling of a special session of Congress to meet the tremendous problem that is ours as a result of the Mississippi River floods."

Congressman Hull Strongly Favors Extra Session of Congress.

Cordell Hull, Carthage, Tenn.: "I strongly favor an extra session of Congress to make suitable appropriations for such urgent needs as food, clothing, shelter, seeds and other rehabilitation of the flooded section of the Mississippi Valley, and also to take steps to deal more effectively with this flood problem in the future."

Hopes That Congress Will Yet Awaken.

O'Neill-McNamara Hardware Co.

Vicksburg, Miss., May 18.

Editor Manufacturers Record:

We thank you very much for your kind expressions in reference to the situation we are now coping with. Like you, we hope that out of this great disaster will come some concrete remedy, which will prevent a recurrence. The country, as a whole, has responded liberally. We are daily in receipt of letters from all sections, expressing sympathy and advising of contributions to the relief fund. This is a wonderful source of encouragement. It shows that when distress comes upon any portion of our country, it awakens a humane spirit in all of the rest.

We believe it was a great mistake on the part of the President not to have made a trip down through this country to get first hand impressions. We also believe he should have called a special session of Congress to get busy on reconstruction at once. As you have said, it is not a local proposition, but one for the national government to solve. It would be a sad commentary on our government, with its wonderful resources, to allow, for any length of time, one section of it to be so completely ruined from the drainage of other sections and not provide adequate means to forever prevent a repetition. We hope that Congress will be so awakened to the present situation that it will cause the treasury of the nation to be opened and adequate relief provided. We have faith in our section, and believe it will come back strong. We also have faith in our government, and believe that justice will be done in the course of time.

C. J. O'NEILL, President.

Congressman Major of Missouri Favors Special Session Without Delay.

Sam C. Major, Fayette, Mo.: "I am heartily in favor of an extra session of Congress and have wired the President and requested that he convene Congress for that purpose. It should be done without delay and there is no better time than now when there prevails throughout the country that commendable spirit to aid and assist in the relief of the thousands and thousands of our people in that unfortunate section."

Congressman Nye Sees Need of Special Session.

Gerald P. Nye, Cooperstown, N. D.: "I believe that a special session ought at least be contemplated at this time. It may be a bit early for Congress to be able to appreciate the full extent of the damage done and relief needed, but as soon as there is opportunity for intelligent understanding of the need for relief, and the need for precautions against further terrible experiences like that now being suffered, I think there ought be no delay in the calling of a special session. I have so expressed myself to the President, and sincerely hope that such a program as will make certain against a repetition of the losses and suffering now being experienced in the South will not be delayed."

Mississippi Flood a National Problem and Congress Should Be Called in Session to Consider It.

Congressman Charles R. Crisp of Georgia, writing from Washington, May 19, says: "I have read your able editorial dealing with the Mississippi flood situation and the desirability of calling an extra session of Congress to deal with it and to prevent a repetition of the disaster with a great deal of interest.

"I recognize that the flood is a national problem, and I should like to see the President call an extra session of Congress to consider it."

Congressman Steagall Believes It Unpardonable to Delay the Call for Special Session Which Should Give All Possible Relief.

Henry B. Steagall, Ozark, Ala.: "Some weeks ago, I gave out an interview in which I expressed the opinion that the President should call an extra session immediately. I think so more strongly now than ever. It will be unpardonable to delay congressional actions another year. That is what will happen if Congress is not called in extraordinary session. No time should be lost in extending relief to those who suffer from present disaster nor in the effort to make its repetition impossible."

Congressman Free Does Not Believe in Special Session.

A. M. Free, San Jose, Cal.: "It seems to me that this is an engineering problem, and that the engineers are ready to make some recommendation for the control of the Mississippi, it would be useless to call a special session of Congress. I do not believe that Congress has the Constitutional right to appropriate money for the use of individuals such as the flood sufferers."

Congress Should Be Called.

Morgan G. Sanders, Canton, Texas: "Congress ought to be called together in special session for the purpose mentioned."

Not in Favor of Special Session.

Elmer O. Leatherwood, Salt Lake City, Utah: "I see no advantage in calling a special session of Congress at this time. I favor a comprehensive plan of flood control."

Who Owns the River?

By DOUGLAS MALLOCH, in American Lumberman.

The river belongs to the nation,
The levee, they say, to the state;
The government runs navigation,
The commonwealth, though, pays the freight.
Now here is the problem that's heavy—
Please, which is the right or the wrong?—
When the water runs over the levee,
To whom does the river belong?

It's the government's river in summer
When the stage of the water is low,
But in spring when it gets on a hummer
And starts o'er the levee to flow;
When the river gets suddenly dippy
The state must dig down in its till
And push back the old Mississippi
Away from the farm and the mill.

I know very little of lawing,
I've made little study of courts,
I've done little geeing and hawing
Through verdicts, opinions, reports;
Why need there be anything more said
When the river starts levees to climb?
If the government owns the aforesaid
It must own it all of the time.

If the bull you are leading should bellow
And jump over somebody's fence,
There isn't much doubt you're the fellow
Expected to bear the expense;
If it follows a Sunday school teacher
And chases the maid up a tree,
You're the owner the same of the creature
Undoubtedly all will agree.

If sometime should somebody's chickens
Get into your garden and dig
And pull up the plants like the dickens,
Or somebody's bull pup or pig,
The owner thereof cannot blame it
On you or some party remote;
The owner thereof can't disclaim it
The chick or the pup or the shoat.

If it's your Mississippi in dry time,
It's yours, Uncle Sam, when it's wet;
If it's your Mississippi in fly time,
In flood time it's your river yet.
There's no other way you can make it,
And so, when I give the alarm,
Come get your darned river and take it
Away from my timber and farm!

The Protection of the Mississippi Valley Is of Far Greater Importance Than the Building of the Panama Canal.

Southern Pacific Lines in Texas and Louisiana,
New Orleans, May 18.

Editor Manufacturers Record:

The whole Mississippi Valley is in the throes of distress from this latest great calamity. Our own great city has through the intervention of a kind Providence, been spared so far as the flood is concerned, but its business will suffer greatly from the disaster that has been so appalling to our neighbors.

I have read the article in the MANUFACTURERS RECORD of May 12 with much interest and heartily concur in the views therein expressed. As stated in that article, the protection of the Mississippi Valley is of far greater importance to a larger percentage of the American people than the building of the Panama Canal and yet the money was freely provided for that great enterprise. This present disaster, however, has turned the attention of the whole country to the necessity for action on the part of our Government, and it is hoped will result in eliminating all political consideration and that necessary action will be taken to make such a disaster impossible in future.

CHAS. S. FAY,
Traffic Manager.

With Abiding Faith in Almighty God and Full Confidence in the People, He Looks for Betterment.

Stewart Gammill, Trustee.

Gammill Lumber Company, Pelahatchie, Miss.
Mississippi Soft Pine Company, Canton, Miss.
Central Mississippi Company, Lexington, Ky.

Jackson, Miss., May 17.

Editor Manufacturers Record:

I sincerely appreciate your profound expression of sympathy for the flood sufferers of our great Delta section, which is now a raging inland sea of murky waters covering the greater portion of several counties and parishes of Mississippi, Arkansas and Louisiana, covering millions of acres of the richest agricultural lands in the world. The suffering and privation and property loss are almost unbelievable to people who have not visited the great devastated section now a raging sea. Great catastrophes always serve as stepping-stones to higher and greater achievements, especially where the vast majority of the people are of pure Anglo-Saxon blood.

We especially appreciate your offer to lend any assistance possible through the greatest journal in our country, the MANUFACTURERS RECORD, the great Exponent of Americanism.

The Mississippi River, draining an area of approximately 1,250,000 square miles of territory, extending from the Rocky Mountains in the west to the Blue Ridge and Alleghanies in the east, and approximately from the Great Lakes in the north to the Gulf of Mexico in the south, is, of dire necessity, a national problem, and a standard system of levees should be constructed and maintained by the National Government, sufficiently strong and with a capacity great enough to effectually prevent any further recurrence of the great, disastrous flood that is now resting so heavily on the good people of Mississippi, Arkansas and Louisiana. The worst has passed in Mississippi and Arkansas, but Louisiana is right now in the very midst of the worst, provided there are no further breaks in the levees. In the language of Governor Martineau of Arkansas, I wish to say on behalf of Governor Murphree and the good people of Mississippi that the rainbow is plainly visible beyond the great murky waters of the inland sea.

I feel that you can do a great work for the stricken Delta sections and the future of these sections by writing one of your masterful, personal letters to President Coolidge, each member of his Cabinet and each and every member of Congress, strongly insisting that they devise ways and means for effectually eliminating these great catastrophes for all time to come.

I would like to suggest that you have printed in the MANUFACTURERS RECORD as many of their replies as possible, and especially those of the recognized leaders of the various States.

With abiding faith in the Almighty God and full confidence in the good people of the three States, who suffer all, and the hope that Congress will fully realize its duties and responsibilities and perform them in an effectual manner, I beg to remain,

STEWART GAMMILL

A Great National Problem.

Mississippi Agricultural and Mechanical College.

A. and M. College, Miss., May 18.

Editor Manufacturers Record:

I desire to express my appreciation of the service the MANUFACTURERS RECORD is rendering to Mississippi and the South. Your great journal is read with interest, and we look to it for counsel and advice in the great constructive work of our section of the country. We appreciate very much your kind expressions and your sympathy in the flood situation, and your desire to co-operate in the solution of the great national problem that now confronts us.

B. M. WALKER, President.

Urge Discussion Through the Manufacturers Record of the Question of a Special Session of Congress.

The American Rolling Mill Co.

Middletown, Ohio, May 16.

Editor Manufacturers Record:

The Mississippi River flood is certainly one of the great disasters of our time. It is so great that it will undoubtedly put it within the power of the administration at Washington to make and carry out definite plans to prevent a repetition. Nature seems to be taking a heavier toll every year and anything that man can do to prevent these recurring losses of life and property should certainly be done. Just what the nature of the protective work should be is a matter for competent engineers to decide, but, considering the topography of the territory adjoining the Mississippi throughout its length, it would seem to be a matter of adequate levees, properly constructed.

Whether it is wise or would be helpful to call an extra session of Congress, it seems to me is beyond the opinion of the average citizen. That the necessity is great and that the administration should take just as prompt action as can be taken is certainly the opinion of every fair minded citizen.

I am sure discussion of this important matter through the columns of your outstanding publication will be a very great aid in the matter.

GEORGE M. VERITY, President.

Individuals in Flooded Area Show Courageous Spirit—Rehabilitation Movement Under Way.

Mississippi Central Power Company.

McComb, Miss., May 16.

Editor Manufacturers Record:

I am sure the spirit and courage of the individuals in the flooded area in the comeback which is being made is worthy of comment. I have attended some of the meetings in connection with the rehabilitation movement, and I find that Mississippi as well as Arkansas and Louisiana will rebuild and handle the situation as a whole with the minimum of loss and even with the minimum of discouragement, gloom and despair; it is very largely a case of holding up the morale under extraordinary discouraging conditions; it is my belief that the three States affected the most seriously will demonstrate to the world that they will not be downhearted and will rebuild and stay on and in their homes. I am sure that the Federal Government will take action and fully solve the problem, and prevent a reoccurrence for all times.

R. E. BAIRD, Manager.

To You Who Have Given.

(From the Flood Area.)

Bread for our hungry—nay,
Their bodies fed,
You give them more than bread;
More than the shelter where to lay
Fear by and rest,
Warm, safe, and comforted,
The frightened child smiles on its mother's breast;
Rain beats no more upon the tired gray head;
And men who could not cope
With utter ruin, have through you the stay
And staff of hope.

Bread for our hungry? Nay,
The soul is fed,
The feet of hope are shod,
The heart is comforted!
The gifts you give to be our bodies' stay
Go up instead
As shining prayers to the Throne of God.

MARY LESLIE NEWTON.

All Saints', Vicksburg.

How New Orleans Fought and Won Against the Flood.

By THOMAS EWING DABNEY.

New Orleans, May 20.

It was a magnificent fight that the people along the Mississippi River made against the terrible invasion—a fight that drew upon every ounce of their courage, made the ultimate demand of their endurance. In many cases, they lost, but went down fighting. They stuck to the levees hours and days after the engineers said the embankments could not withstand the terrible thrust, and they were still on the levees when the river burst through. In some cases, they won—the power of men with their shovels and sandbags and pile drivers literally turned back the river after it had said, "Through there will I go."

The fight at New Orleans was probably the most concentrated battle on the river, for it was a fight that raged over a front of 100 miles. It was a successful one—a fight not only against physical danger, but also against Fear—fear of what a crevasse might do to the South's metropolis and the Nation's second port. A record-breaking rainfall on April 15 and the accidental disabling of the pumping plants had put parts of the city several feet under water, and this was a foretaste of what a crevasse would be here. There were the beginnings of a bad panic when the official forecasts announced that the levees would be required to hold three feet more of water than they had ever endured.

John Klorer directed this fight. He is commissioner of public works in New Orleans. He is also an engineer who has spent most of his life studying and fighting the Mississippi River, and on April 16 he was drafted by the Levee Board to take charge of the city. He was given "plenary power to do all things necessary and requisite to preserve the safety of the situation." It is seldom that one man is invested with such complete control in a city of 425,000 inhabitants.

In order to understand the problem of the defense of New Orleans against flood water, it is necessary to know something about the topography of the place.

New Orleans is an old city, founded two centuries ago by Bienville on the marshy bank of the Mississippi, with Lake Pontchartrain, a large body of water, and an arm of the Gulf of Mexico, a few miles behind it. Its site was chosen more for military and strategic reasons than for its advantages as a commercial depot. The year after he laid out the city, Bienville was driven by overflows to the building of levees—they were at that early day only two feet or so in height.

New Orleans is 110 miles from the mouth of the river, which empties into the Gulf of Mexico. Most of the city lies on the left-hand bank, looking downstream; part of it, known as Algiers, lies on the right bank.

As is the case with all alluvial streams, the highest land is immediately alongside the river; from the banks, it gradually slopes towards the interior. The levees are only artificial elevation of these banks. These levees are the highest land in New Orleans.

On the commercial front, the levees are not apparent, because the ground has been filled in artificially on a long slope, to facilitate transportation. The levee heights on the New Orleans front are 16 to 20 feet, and some portions of the city are as much as 20 feet below the level of the high water line. These sections are one or two feet below gulf level.

Behind the city is Lake Pontchartrain, subject to a tidal

rise of about one foot, and a storm rise of five to six feet.

Thus, it is necessary to protect New Orleans not only from water invasion in the front, but also from a similar invasion in the rear and on both sides. New Orleans is, therefore, entirely surrounded by levees. On this line of defense, about 25 miles are on the river front, divided equally between the left and the right banks, and about 40 miles comprise the outer walls behind the river front. But, counting the levees with which the waterways penetrating the city, its canals and Bayou St. John, must be protected, more than 100 miles of these embankments are needed to make New Orleans safe against flood. The rear defenses, of course, are on no such large scale as the front.

A part of the interior levee system is known as the Upper Protection levee. It runs from the river to the lake, and is about six miles long. This was built after the Sauve crevasse of 1849, 15 or so miles above the city, which spilled a good deal of backwater into New Orleans. Its purpose is to keep the city dry in the event of a break in the levees within 40 miles of the city, upstream.

The river levees are the strongest on the Mississippi, and there was never any apprehension that they would break, despite the fact that a flood stage of 24 feet and possibly more was forecast in April, though, of course, it was a new test to which the defenses were to be put. No one in New Orleans, fears a 21-foot river, because the New Orleans levees have withstood that much water and more. The levees on the river front at New Orleans are built much heavier than the Government standard.

But there is no such feeling of certainty regarding the levees in the country districts near New Orleans. These sections have lacked financial means to build such mighty embankments as at New Orleans. A break in the country levees would be full of consequences for New Orleans, because the Upper Protection Levee is by no means as strong as it should be. It is untried, and many think it is little more than a gesture.

Water against the Upper Protection Levee has not been an annual reminder to build that structure as strong as possible and, as the years passed without a crevasse above the city, there was such a slackening in vigilance that about 25 years ago the municipal authorities permitted the excavation of a large drainage canal along the foot of the levee, and this weakening to the foundation makes it rather problematical whether the Upper Protection Levee could hold out the eight or ten feet of water that would be poured against the city by a crevasse a few miles above the city.

The flood experience of 1922 and subsequent studies of the river problem by such engineers as John Klorer, A. M. Shaw, J. P. Kemper, W. B. Gregory, Hampton Reynolds, J. W. Billingsley and Marcel Garsaud, all of New Orleans, caused New Orleans to lose faith in the belief that levees only could provide the proper safeguards. The belief that spillways, to help the levee by allowing some of the water to run through specially prepared channels, when the river reached the bursting point, gained strength. It became a State policy, and in 1926 the Levee Board of New Orleans secured permission from the War Department to remove a stretch of levee below New Orleans, to demonstrate the spillway idea. This was near Pointe-a-la-Hache, some 60 miles below the river. Eleven miles of levee were removed, so that the waters

of the Mississippi, when they reached a certain height, would spill across the marshlands to the gulf.

The cost of this work was nearly \$1,000,000. It was the first such step taken in the protection of New Orleans since the building of levees was begun.

When the river began to rise this year, and when report after report confirmed the belief that a record-breaking volume of water was moving downstream, Mr. Klorer first saw to the river-front protections. Some stretches of levee were not quite up to Government height, because the standard of elevation had been raised after the wharves had been built. These were raised by sandbags. Where railroad tracks crossed the levee to go to the ferries, sandbag fortifications were made and the tracks were elevated. Up and down the river front, piles of sandbags and material, and men, were concentrated, to be ready if an emergency developed at any point.

But, at the same time, Klorer threw himself into the task of strengthening the flank and rear defenses.

The problem was complicated by the distance from which material had to be moved, for there are no bluffs or hills in the city of New Orleans. It was necessary to haul the dirt from a distance of 40 to 50 miles, and so a transportation, as well as a construction, problem had to be solved. The material was assembled by railroad excavating machines, packed into sacks, shipped into New Orleans and built into ramparts on top of the levees. About seven miles of river-front levee were raised in this manner—some of it as much as three feet.

The flank and rear defenses were raised several feet, and strengthened throughout the entire line. This work was done by small excavating machines, of a half to three-quarters yard capacity. For the Upper Protection Levee, the material was hauled from away; for the lake levees, the material was excavated from the water side of the embankments. About 1200 men were employed in this work, which moved forward with a rapidity seldom equalled. The cost of this work to the city may be estimated at \$200,000.

The third step in the defense was the opening of the levee 14 miles below the city, near the settlement known as Caernarvon. This was two miles below the Poydras break of 1922, which reduced the level of the river at New Orleans by two feet within a week. A committee of city leaders, headed by Mayor O'Keefe, with James P. Butler, president of the Canal Bank and Trust Company, for chairman, came to the conclusion that, as a final precaution, this cut should be made. They conferred with representatives of the parishes of St. Bernard and Plaquemines, which would be flooded, and reached an understanding with them whereby everyone should be reimbursed in full for the damage suffered. The Levee Board bound itself to raise the money by a special tax, which it has the power to impose to meet situations of emergency. The cutting was done on April 29, after an orderly evacuation, and after provision had been made in New Orleans to care for the refugees.

There was still a fourth phase in the fight to make New Orleans safe. Because of the possibility that some person or persons of unsound mentality might seek revenge for cutting the Caernarvon levee, and attempt to break the levee at New Orleans, it was necessary to police the ramparts heavily. Electric lights were erected on the crown of the levee and telephone stations were erected.

The cost of cutting the levee at Caernarvon was about \$25,000. The total of the indemnity to the property owners cannot be estimated at the present time. If it is \$2,000,000, the protective devices with which New Orleans met the Mississippi's challenge this year will have cost about \$3,250,000. The cost to New Orleans is, of course, a great deal more than that, counting the contributions to the Red Cross, the thousands of dollars of money sent to river fighters at threatened

points upriver, where there was no more money to hire guards and buy material and labor, and the upset to business. It is true that the business of the port went on without interruption, but it is also true that general business suffered a great deal—in about the same degree as it would have suffered had the war been with men and not with a torrent of water.

No Interference With New Orleans' Foreign Trade.

New Orleans, La., May 21—[Special.]—High water has not interfered with the foreign trade of New Orleans. General Manager Garsaud of the Lock Board reports that the gross tonnage of vessels arriving at New Orleans in April exceeded the total of April, 1926, by 35,000 tons. The tonnage during the first 10 days of May exceeded the total of the same period last year by 15,000 tons. Cargo has been handled as usual; none of the wharves have been under water.

Governor Murphree's Commendation.

Mississippi Executive Department.

Jackson, May 17.

Editor Manufacturers Record:

Speaking for Mississippi, we are very grateful for the splendid aid and assistance your periodical has rendered during our recent disaster. We also thank you for the expression of confidence in the ability of Mississippians to rise and meet this emergency by the development of more initiative and more energy.

I thank you sincerely for the copy of the Blue Book which you have mailed me.

DENNIS MURPHREE, Governor.

Appreciation From Governor Martineau.

State of Arkansas, Executive Chamber

Little Rock, May 19.

Editor Manufacturers Record:

Personally, and on behalf of our people, I wish to thank you for your favor of the 13th inst., expressing sympathy for those who have suffered as a result of the recent disastrous flood in Arkansas.

I also wish to thank you and the members of the staff of the MANUFACTURERS RECORD for the signal service which you have rendered in presenting to the world the brighter side of the situation. The MANUFACTURERS RECORD is in a position to exercise an influence which will be of inestimable value to the flood-stricken States in their work of rehabilitation. Your generosity in opening your columns to us is an act which will long be remembered.

JOHN E. MARTINEAU, Governor.

This Deepens Our Sense of Responsibility for All We Print.

Williams, Inc.

New Orleans, May 16.

Editor Manufacturers Record:

The MANUFACTURERS RECORD comes regularly to my desk and is always welcome, and particularly is your editorial on the front page, which invariably has to do with matters of great moment and great public interest.

Unquestionably your editorials, particularly and your publication as well, are a great stimulus to all Southerners and of great benefit to the South. We are all guided to a very large extent by what you publish and we believe in the honesty and truthfulness of your statements.

C. S. WILLIAMS.

Picture Story of Mississippi Valley Flooded Area.

HOW IT DEPICTS STEADFAST FAITH AND DETERMINATION OF STRICKEN PEOPLE TO HOLD THEIR OWN.

By CRADDOCK GOINS.

(Illustrations used are from a private photo collection of Governor Dennis Murphree of Mississippi, made from his private houseboat, which the Governor personally manned in directing relief work. This boat carried 1160 people from treetops to safety.)

Jackson, Miss., May 20.

Pictures of the flood situation in the Mississippi Valley tell a graphic story of the brave fight made by the victims of the flood to keep business and commerce under way. Despite flooded streets and destroyed homes, every effort has been

row to their bank in boats every morning. At the door are sacks of sand to hold out the water from the building. The boats are moored at the doors. The officials and employes step out, carry out their regular banking procedures during the day and then row to their homes.



GOVERNOR MURPHREE'S PRIVATE HOUSEBOAT TAKING HOMELESS PEOPLE TO CAMP AT VICKSBURG.

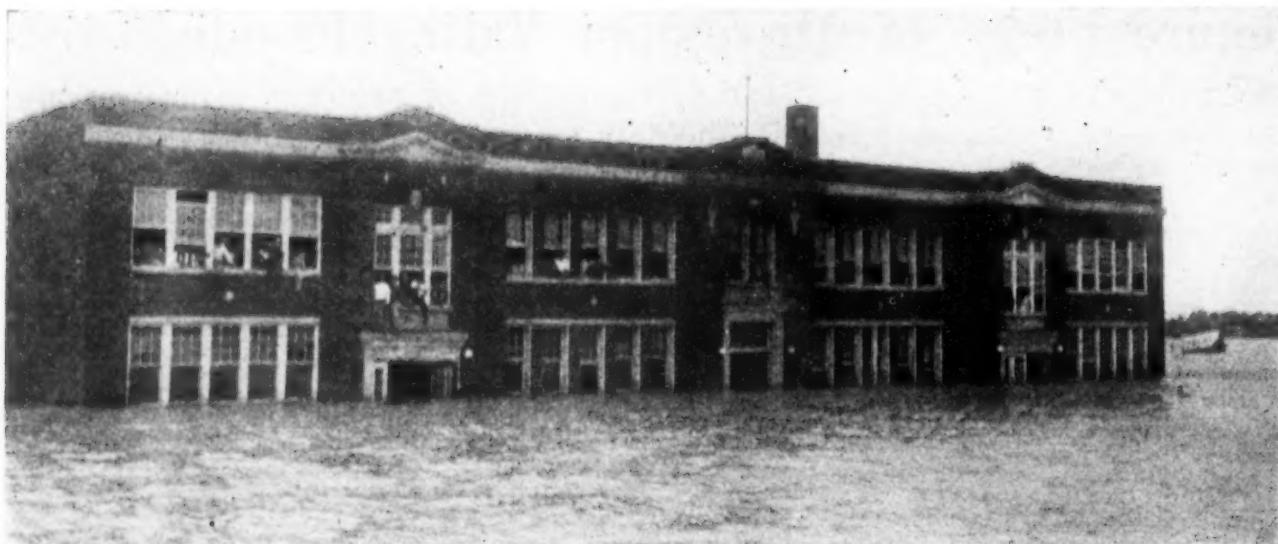
made to keep in progress all human activities of daily life, marketing, banking, church services, etc.

Officials and employes of one bank in the Mississippi Delta

Church services are similarly held at a number of churches. "God is with us always, despite hell and high water," observed one minister of a church that was so badly flooded



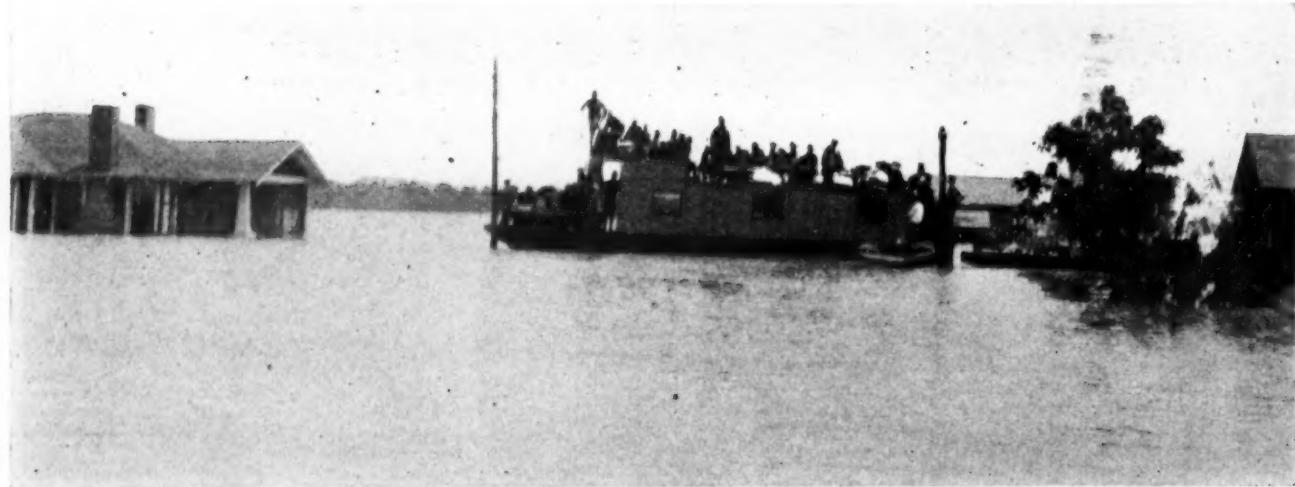
RESCUE WORKERS LOOKING FOR MAROONED VICTIMS.



ONE OF THE CONSOLIDATED HIGH SCHOOLS TO WHICH PUPILS GO IN BOATS.



RELIEF BOAT TAKING NEGRO FAMILY FROM INUNDATED HOME.



SEARCHING FOR REFUGEES AND CARRYING THEM TO SAFETY.

that services within the church were impossible. This resourceful man then held his Sunday services in the open air, on the top of a levee, and the next Sunday the waters had receded sufficiently to allow worship within the church.

Stores in many of the flooded districts, particularly in the Mississippi Delta, have adopted the rule of staying open for



NEAR GREENVILLE—THIS HOUSE HAS A HOLE IN THE ROOF THROUGH WHICH THE INHABITANTS ESCAPED.

business from 11 o'clock till 2 every day. Patrons row up to the doors and find the merchandise displayed on shelves supported by stilts.

Judge Harris Dickson of Vicksburg, Miss., foremost writer of negro character stories, has brought the pathos and humor of the Mississippi flood to the people as nothing else could. Judge Dickson, publicity director for the flood relief organization, going about among the relief workers, tells of incidents that show how the people, even in the face of death and desolation, calmly and resignedly face the situation and attempt to keep carrying on.

The boat came to a building half inundated, Judge Dickson related. It could not be determined just what sort of building it was or who might be on the inside until, turning a bit, the boat occupants saw a large white sign reading, "Service With a Smile." Then it was easy to see it was a public automobile filling station. Another turn of the boat revealed a woman on top of the building, holding something in her arms. On the back of a huge jumper she wore were the words again, "Service With a Smile." Still another turn of the boat revealed the type of service she was performing. Clutched in her arms, held tightly to her breast, was a fat, chubby youngster, contentedly feeding away, oblivious to the crisis hovering over him, conscious only that bending over

his red little face was the smile of a woman to whom he meant more than all the perishable possessions of this world.

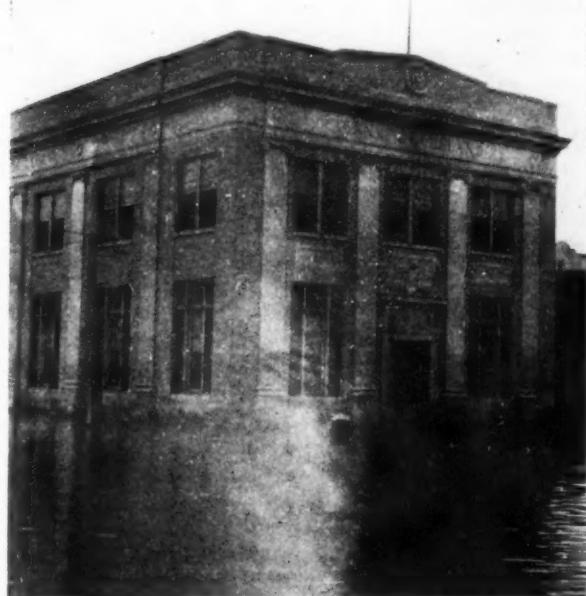
Dairying was rapidly gaining a foothold in that wonderful Mississippi Delta agricultural section when the flood came. The splendid type of soil, so well adapted to diversified crops and to growing feed for cattle, was coming to be appreciated, and the unfortunate cotton situation last year was another incentive toward a securer form of farming.

The affection of the true dairyman, white or black, for his cow is well known to all familiar with the lover of stock and cattle. A facetious story on this point is passed on by Judge Dickson. His relief boat came to a small little knoll that barely poked above the flood waters. On the knoll was a lad whose face, despite the fear and anxiety gripping his heart, still was just a shade lighter than tar.

"Mistah," said this darky, as the relief boat pulled up, "kin I bring my cow wif me on dat boat."

He was told that poor old bossy would have to remain on the island.

"Den," said the black boy, after a moment of quiet thought, a resolute light in his eyes, "I guess you white folks better



BANK OF LELAND CONTINUES TO DO BUSINESS.
OPERATIVES COME IN BOATS.

jes drive on an' look for some mo' cust'mers; me'n my cow is gwin'er stay."

The Southern darky's faith in prayer—the real Southern negro, that is—is well known to white friends of the section. Judge Dickson's relief mission brought him face to face with an example of the religious negro's faith in the great Supreme Master. An old negress had backed a hole in her roof



A TYPICAL SCENE IN THE FLOODED DISTRICT.

and climbed out on top when the waters flooded her cabin. As the relief boat drew toward the house, the occupants could hear her incessant whispered petitions for deliverance from this peril.

"It's all right, Auntie," called some one from the boat. "We've come to take you to safety. Just climb into the boat."

The whites of the black woman's startled eyes rolled uncertainly toward the speaker, and she gazed with eyes filled with delight for a moment. Then, she quickly shambled to her feet, strode toward the boat and said:

"Thank you, Jesus."

L. J. Folse, general manager of the Mississippi State Board of Development, who temporarily suspended the activities of his organization to participate with Flood Dictator Crosby, president of the board, in the relief and rehabilitation work, is widely known for his fiery spirit in all undertakings in which he engages. Some excited individual ran up to a Red Cross official and began vociferously expressing his disapproval of Mr. Folse.

"That man Folse," he said, "has no business around here. You know what he said to me? He said if I didn't grab hold of something right away and get busy, he'd knock me cock-eyed."

"Listen, friend," said the official, "I wouldn't trust that fellow Folse very much if I were you—do you know, I believe he'd do it!"

"Pushed Old Noah a Close Second. But We Are Not Licked—Not a One of Us."

Chamber of Commerce.

Greenwood, Miss., May 18.

Editor Manufacturers Record:

Greenwood and its immediate territory were fortunate enough to be out of the path of the flood, and in a position to aid its less fortunate neighbors, but it appreciates nevertheless the wonderful response of practically the entire nation to the needs occasioned by this almost unprecedented disaster. The one redeeming feature of the catastrophe is its overwhelming extent and duration—Involving seven States and a period of three months. Its very magnitude will force required action.

In the meantime we are following the receding waters inch by inch, "muddying in," and where seed can be gotten in the ground in time, should, with a favorable growing and harvesting season, make good crops. These Delta lands are the richest in the world, and the people partake liberally of the strength and energy characteristic of the soil. All the crevasses in the world couldn't wean them away from it. We've laid Johnstown in the shade and pushed old man Noah a close second, but we are not "licked" yet—not a one of us.

F. HERR,

Secretary.

Criticises the Suggestion of a Concrete Core Wall for Levees.

New Smyrna, Fla., May 20.

Editor Manufacturers Record:

I doubt if Secretary Hoover or the readers of the MANUFACTURERS RECORD versed in engineering will take seriously the suggestion of C. A. Moreno, contracting engineer of St. Louis, Mo., as to a concrete core wall for levees, extending from the top to 10 feet below the base.

Without knowing the detail of design, it would seem that as soon as the water reached this core wall, it would become in effect a retaining wall and would soon fail from undermining or from the effect of the surcharge. All the reports I have read advise higher and wider levees which looks quite reasonable even to one not skilled in design.

RAY SHARP BLINN.

Great Organization in Flooded Area Appreciates Efforts in Behalf of Flood Victims.

Delta and Pine Land Company of Mississippi,
Largest Cotton Plantation in the World.

Memphis, Tenn., May 17.

Editor Manufacturers Record:

Permit us to express, first our appreciation for the sentiments contained in your letter of the 13th, and next to congratulate you and the people of the Mississippi Valley upon your very splendid editorial and the effort you are putting forth in our behalf.

OSCAR JOHNSTON.

"One of the Most Serious Internal Conditions Ever Facing Our Nation."

Fernwood, Columbia & Gulf Railroad Company.

Tylertown, Miss., May 20.

The flood situation in the Mississippi Valley is one of the most serious internal conditions ever faced by our nation. It cannot be viewed from afar with any realization of its awfulness.

The problem of flood control is fraught with great possibilities for good or evil of the economic welfare of coming generations. Upon the methods which are used in the control of the waters of the Father of Waters, and our great engineers tell us they can be controlled, depends whether it will be a life-giving and a life-sustaining artery or a dreaded scourge.

It would be expected that your great publication take the most progressive stand in this as well as any question, and I wish to take this method of expressing my appreciation of your efforts in behalf of the Mississippi Valley and the nation as a whole in this matter of flood control.

J. P. FRAIM, Vice-President and General Manager.

We Are Afraid It Will Be a Long Time Before They Have "Forgotten Their Trials and Tribulations."

H. R. McVeigh, Marianna, Ark., in a personal letter to the editor of the MANUFACTURERS RECORD, a long-time friend, writes:

"Our refugee camp, which Mr. Hoover said was one of the best he saw in his travels, is nearly a thing of the past; all this week the State Guard running the huge army trucks, have been taking refugees to the L'Anguille River, where they take boats to their homes. They will go into desolate homes, but 'hope springs eternal in the human breast,' and in a few weeks they will have forgotten their trials and tribulations, and with help, can make a crop, or they will on most of the lands. I cannot believe that the \$10,000,000 given by the Red Cross will be enough for those in the overflowed section, especially in other parts of Arkansas, Mississippi and Louisiana. I can understand how the President does not want Congress on his hands, but I do think if a special session could be had to make the necessary appropriations for relief, and then adjourn, one should be called. The President did a very wise thing in sending Secretary Hoover to overflowed sections. I saw him here, and like most really big men, is quiet and unassuming, 'putting on no dog' as I heard some one say.

"The matter of controlling the Mississippi is too big a question to be taken up at a special session. I have very little faith in spillways, and doubt if we could get them, but who is to furnish them? I am strong for levees. I was secretary of the St. Francis Levee District for ten years, and have lived on or near the old river for forty years. You may have noticed that there were no breaks in the St. Francis levee, which extends from the Missouri State line down to a point ten miles above Helena. Higher levees, wider base, and set further back will save us. The trouble is that owners object to having so much of their land thrown out, and the levee district is not able to pay the high cost of the land taken. We like to think that this country has very great engineers, and it is true, and we may well wait until late fall, to give them time to solve the problem. The shadows are lengthening for me, and I may not live to see the problem solved, but it will be, I am sure."

Flood Control—A Problem of Economics and Public Policy First, and of Engineering Skill Next.

By WALTER PARKER, Economist of Fenner & Beane, Executive Vice-President, National Flood Prevention and River Regulation Commission.

Viewing America from afar one sees:

A Federal treasury bursting with gold.

Enterprises everywhere reflecting business vision and genius.

Engineering works of the first magnitude.

And the most fertile region of the whole drowned out, devastated by surplus drainage which should be working for the people, not against them.

Again, one sees Federal troops in far-away lands protecting the dignity and property of the citizens of the United States; warships with great guns ready to repel an outside enemy; War and Navy Departments spending millions annually to be prepared. But at home no vision, no skill, nothing adequate done to tame the mighty Mississippi; only relief crews at work rescuing people from house and treetops, feeding and clothing the wet and weary refugees, all waiting for the water to recede of their own accord.

And when one turns and asks: "Well, what are we going to do about it?" he hears only conflict of opinion, diversity of views. The engineers disagree. The public is confused. Why? Simply and solely because there is no comprehensive plan. The engineers do not know what they are expected to accomplish, what problem they are to solve. There is no national policy, and there never has been one.

Levees alone are not enough. The flood has proven that.

Spillways alone would not be enough.

Source stream control would not alone be enough.

There is more to the problem than merely keeping water off of somebody's land. There is more to it than merely creating power and irrigation and navigation out of now wasted drainage.

The problem as a whole is interrelated. Dry lands need more water; low lands need protection from too much water. Upland farms need the soil which annually washes away from them. The whole country needs new forests. Great reserves are needed for the preservation of wild life. Everywhere something needs to be done and the whole is intimately related to the problem of flood control. Those engineers who are willing to discuss the matter at all must first state the problem to be solved. The lowland engineer sees only a great flood, already formed in all its might, and so plans strong levees or levees and spillways.

The upland engineer sees water going to waste, and so plans irrigation and power-development works. The forestry people concentrate their thought on the replanting of denuded areas. Soil experts talk about putting a stop to erosion. All of these things are wholesome, desirable and closely related.

But there is no one, no bureau, department or commission in all the Government service empowered to bring them all into proper juxtaposition, to plan comprehensively, to tell the engineers what they are to do any more than there is any machinery within the Federal Government empowered to co-ordinate the work of the many bureaus which have to do with many now isolated but closely related angles of one big problem. Basically, it is simply a matter of national policy and national economics.

First let us determine this question: Who should be responsible for the orderly conduct to the sea of interstate drainage? Since the lowland States cannot control the acts of the upland States—and many of those acts are hastening

the run-off—it is clearly the duty of the Federal Government to control interstate drainage and to protect the lowland States from an internal enemy, just as it protects all States from a foreign enemy.

Next, let us settle the question, "Why has not the Federal Government done this long ago?" The answer is that there never has been any national policy, nor has there been any comprehensive planning, nor co-ordination of effort, nor co-operation. The Government did not do any real thinking about the matter. It guessed that levees would serve, and so it told the people to build levees and that the flood waters would pass harmlessly between them to the sea. And it helped the people build levees. It did more; it closed nearly all the great outlets and helped take from the river the great natural reservoirs which the river had provided for itself.

Now let us answer the question, "What can be done to solve the problem?" The answer is: Form a commission to be composed of the Secretaries of War, Agriculture, Interior and Commerce, plus an economist and a hydro-electric engineer. Empower that commission to cause a study of the whole related problem to be made and comprehensive plans to be prepared. Authorize that commission to call upon the scientific, engineering and other Government bureaus to do such portions of the work as they are best fitted to do, and to effect co-operation between the Federal Government, the States, the localities and business enterprise. Give the commission the money it will need to do the following things:

Build strong levees where they are required; create spillways, by-passes, diversion dams, temporary impounding basins where they are feasible and where they will help; control the source streams through impounding, reforestation, the checking of soil erosion, the soaking of more water into the soil, and use surplus waters wherever economically practical for the irrigation of dry lands, for the creation of power and for the improvement of navigation.

Under such a commission there would be definite plans for the engineers to carry out, and, since engineering is an exact science, there would be no diversity of opinion, at least not in so far as the objective to be obtained is concerned. And so it follows that a national policy, based on sound economic thought and wholesome public interest, is the first step, a comprehensive plan is the second and money for the engineers to spend is the third. The outcome will inevitably be a new economic margin, over and above normal profits, for the American people as a whole.

Meanwhile the broken levees can be repaired and spillways can be created for immediate safety for parts of the valley without any delay and without in any way being in conflict with the largest comprehensive program, either by the Federal bureaus as at present functioning or as the emergency first work of the departmental commission.

The main thing is we must get away from divided authority and independent part work and part planning as quickly as possible.

Congressman Hare Urges Special Session.

Butler B. Hare, Saluda, S. C.: "I have written President Coolidge urging that he call a special session of Congress to consider further legislation looking to flood control."

Reconstruction Materials Needed in Reconstruction Work in Flooded Area.

[Special Correspondence
Manufacturers Record.]

New York, May 19.

Steel makers estimate that from 500,000 to 1,000,000 tons of steel in various forms will be needed for the rehabilitation of the thousands of square miles damaged by the Mississippi River on a rampage. Inasmuch as miles and miles of normally dry areas are still under water, the extent of the damage is still conjecture. Guesses of engineers who have remained away from the afflicted areas are nearly as good as those of the many engineers who have been on the spot for the past three or four weeks, as what is under water cannot be seen or tested.

Many forms of steel will most certainly be needed, though the amounts involved are anybody's prediction. Much will depend on what Congress will appropriate for engineering projects to prevent ever happening again what is regarded as America's greatest disaster at the hands of Nature. More elaborate defenses in the future will double, treble or quadruple the amount of steel which would be needed merely for placing the defenses and territory in the same condition in which they were formerly.

At any rate, the railroads will need new rails, fish plates, spikes, bolts, nuts, switches and bridges and possibly new rolling stock. Municipalities will require, perhaps, new pipe lines for water, gas or sewers. Rural districts will require considerable fencing and nails. For private dwellings, galvanized steel sheets will play an important role, as many houses in the flooded district are roofed with this material, which is fastened on with galvanized nails and washers. Both in rebuilding and construction of new houses, plumbing and steam-fitting fixtures will be employed. Where levees are to be particularly strengthened, such as at bends of the river and places of strong current, it is possible that considerable concrete work will be employed, calling for large tonnages of reinforcing bars. Where better roads are to be laid, reinforcing bars will again be used. Highway bridges will be replaced, largely of steel. Manufacturing plants will be built more largely of steel and may be placed on steel piles in the low areas.

The steel makers and jobbers are in readiness to rush material to the afflicted area on short notice. They have been schooled in coping with disasters since the war. The earthquake in Japan drew heavily upon American light-gauged black sheets for the roofing of private dwellings and upon structural steel for the reinforcing of the public buildings and various bridges. The hurricane in Florida has been responsible for the greater use of structural steel and reinforcing bars in that district. Following the hurricane in Cuba, there was a big call for galvanized sheets for rebuilding sugar mills and homes.

The sending of steel to the devastated area along the Mississippi will be a simple matter. The Pittsburgh steel makers during recent years have built up large fleets of steel-carrying barges, which deliver all the way to New Orleans. Cheap transportation is therefore assured.

It is probable that the damage done to the railroads will not be as severe as first estimated. Thus the St. Louis-Southwestern and the Illinois Central, whose tracks were in the northern area of the flood, are now largely uncovered and the damage was found to be slight. In the case of the Frisco, which has 30 miles of tracks under water in Southeast Missouri and Northeastern Arkansas, the tracks were weighted down with sandbags before the water covered them.

It is probable that the nearer the Gulf of Mexico, the

swifter are the currents over the watered lands, due to the accumulation of water from the North. Hence the farther South, the greater the damage. Railroad authorities, who have had representatives on the spot, are not able to form any kind of estimate as yet as to the extent of the damage. They point out, however, that in many cases trestles and bridges have been washed away and it will take 150 tons of steel per bridge to rebuild. In some places it is probable that the water has dug new channels, over which bridges must be thrown, while in other places old channels may have been abandoned and old bridges will be standing high and dry.

Photographs have already been displayed of tracks which were left bent and distorted by the receding waters. Spikes and bolts have been bent and pulled out. In all such cases new material must replace them. In many of the engineering projects for rebuilding, especially if the fortifications are to be built on a more elaborate scale than ever before, many narrow-gauge tracks must be laid for carrying working cars loaded with materials. It is certain that much steel equipment will have been damaged because of rust, particularly the finer kinds of machinery. If steel warehouses were flooded, many of the better grades of steel, such as shafting, cold-rolled steel, screw stock and the like, which must be kept dry, were undoubtedly damaged.

It is known that many industrial plants have been flooded, with damage undoubtedly done by water and slime. Several chemical plants, such as for the distilling of alcohol and manufacture of carbon black, have been invaded. Power house machinery has been damaged, if not ruined. Doubtless, large quantities of steel cotton ties have been injured. Of course, much of the steel spoiled will not be a total loss, having a scrap value, if fairly uniform and large enough in tonnage in a place to be handled profitably. Yet the value in the form of scrap is no more than a tenth of the original value, and not that much where too much labor will have to be expended to sort, cut and ship. The nearest steel mills which could remelt the scrap are located at St. Louis.

Inasmuch as the production of steel ingots last month throughout the United States was 4,129,952 tons, it is safe to assume that the total output of finished steel that month was 3,500,000 tons. Therefore, if it takes 1,000,000 tons of steel to rebuild the flooded districts, it would take all of the steel plants in the country over a week to make enough metal to satisfy this want alone.

The immediate effect of the floods upon the steel industry has been to slow up business with this area, as naturally all commerce has stopped. Yet this most fertile district of the United States will be reconstructed, in all probability, with sounder materials than ever before. The entire nation has been aroused by the calamity. The United States is so prosperous that it can well afford to rebuild well and with speed.

Flooded States Should Be Protected.

Brodhead-Garrett Company.

Clay City, Ky., May 18.

Editor Manufacturers Record:

"We note with interest your wire to the President. Surely a nation with all the wealth that we have should see that these Southern States be protected from repetition of these floods. We have read carefully in your magazine the splendid articles you have written on the real conditions."

H. G. GARRETT, President.

South Conspicuous in Nation's Foreign Trade.

[Special Correspondence Manufacturers Record.]

Detroit, Mich., May 23.

To no section of the country is the fourteenth annual convention of the National Foreign Trade Council, which opens here next Wednesday, of greater interest and importance than to the South. Conversely, no section other than the South is of more interest and importance to the members of the Council, the delegates to the convention, the scores of guests from all corners of the earth and the interests which all these groups represent.

For instance, corroboration for this idea is indicated in the fact that Southern cities now are favorite places for the annual meetings of this great business organization. Charleston, S. C., was the hostess in 1926; prospects point to the selection of Houston, Texas, for 1928, and Baltimore seems slated as the meeting place for the convention of 1929. "East is East and West is West," and the twain actually meet now in the South.

The importance of this convention to the country at large is shown by a glance at the merchandise export and import figures compiled by the Government and corrected to May 13, in which it is shown that the export and import values, combined, for last month were \$793,000,000, merely a slight increase over \$785,000,000 for April, 1926, while the four months ending with April 30 this year showed a decline to \$3,040,000,000 from \$3,157,000,000 in 1926. Exports in last April amounted to \$415,000,000, compared with \$387,974,000 in the same month last year, and for the first four months of this year were \$1,615,919,000, as against \$1,512,121,000 last year. Imports in April, this year, were \$378,000,000, a drop from \$397,912,000 last year, and for four months, 1927, were \$1,424,887,000, compared with \$1,644,869,000, in 1926.

In view of the tremendous man power and machine power of the United States, and the resultant actual and potential production, it is felt that the export trade should be stimulated greatly, while the import business should be readjusted in order to preclude cut-throat competition by foreign near-pauper industry on many lines, and to place on a sound basis that import trade which America may need and would welcome. These are not two individual, straightforward problems; they are composite problems, each including a vast number of component questions—international and national policies, mergers and anti-trust legislation, American loans to foreign interests, the American protection tariff, the share of inland industries in export activities, building an export business inland, Webb law possibilities—a thousand and one questions in legislation and finance, in advertising, in business contacts and personnel, the merchant marine and even the diplomatic service. Indeed, it is not improbable that flood prevention for the Mississippi Valley may figure in the deliberations of the convention.

Some idea of what the convention means to the South and what the South means to the convention may be gathered from the fact that the exports from the South in 1926 ran to \$1,672,499,305, or 34 per cent of the total for all the United States, while the imports of the South in the same year were \$528,409,646, or 12 per cent of all American imports. Incidentally the Southern exports were three times as great in value as the Southern imports. In manufactures, in 1925, the most recent report, the South produced \$10,372,185,000, or 18½ per cent of the United States total.

Through the El Paso customs district, in 1926, passed \$13,449,363 of exports and \$8,747,141 of imports, the figures for the 11 other Southern districts being: Florida, \$56,679,000 of exports and \$35,912,000 of imports; Galveston, \$533,668,000 exports and \$38,909,000 imports; Georgia, \$104,593,000 ex-

ports and \$19,489,000 imports; Maryland, \$129,044,000 exports and \$106,239,000 imports; Mobile, \$42,113,000 exports and \$9,720,000 imports; New Orleans, \$413,766,000 exports and \$240,520,000 imports; North Carolina, \$9,762,000 exports and \$14,230,000 imports; Sabine, \$45,897,000 exports and \$2,275,000 imports; San Antonio, \$45,897,000 exports and \$4,690,000 imports; South Carolina, \$36,785,000 exports and \$12,066,000 imports; Virginia, \$209,501,000 exports and \$21,655,000 imports.

These are only a very few of the many reasons for the interest of foreign trade leaders in the South.

Estimates that over 2000 delegates from 42 States and from 15 foreign countries would attend this convention seem to be pretty well borne out by the number on hand for the opening sessions. Following the opening address by Chairman James A. Farrell, president of the United States Steel Corporation, and a Canada session in the afternoon, group sessions form a most important feature.

Increased help for foreign trade finance is predicted by M. D. Currie, Far Eastern division of the National City Bank of New York, who expresses belief that exporters should co-operate with American foreign bankers.

"To my mind," says Mr. Currie, "it is in the interest of the exporter and the domestic banker to encourage the use of any American bank having branches abroad for the collection of his bills. The element of safety is vital, of knowing that the bank's entire capital and surplus are right behind its obligations, of a certain peace of mind engendered by knowing that when there is a financial crisis or some political upheaval abroad one's foreign bills and the merchandise back of them are being taken care of by men of one's own kind. The foreign banker regards such business as a feeder for his foreign branches and regards such collections as an integral part of his branch business, but entirely separate from his domestic operations.

"It is generally agreed that we are now dependent to a considerable extent for our prosperity on foreign trade. As time goes on, as production is speeded up both here and abroad, this will become all the more true. Who is going to handle this business? Is this business going to be handled by foreigners? By this, I mean, are American firms in the export trade going to have this business, or is the buying and financing going to be done by foreigners having their selling organizations abroad and possibly their buying organizations here? True, America may get the manufacturing end of the business, but who will get the commissions? They are not an inconsiderable feature in the welfare of a nation dependent only even to a small extent on foreign trade. The American foreign banks cannot, I think, be charged with having been illiberal to the export trade and particularly when they have been financing those American exporters who have established themselves abroad."

His own idea of what real service in the export trade means is thus given by R. A. Medina, vice-president of the J. A. Medina Company, New York:

"Real service in export trade means attention to minute details and explanations leading to the closing of a sale, information to the buyer regarding shipping, delays in transit, items short-shipped, prices on identical goods applying to future business, proper preparation of documents, transmittal of papers on time to the proper parties without misspelling names or directing to erroneous addresses, covering insurance to suit the requirements of the importer, the merchandise and the particular market, attending to ocean freight at the proper rate (including supervision of weights or

measurement of packages), insuring proper stowage, and the preparation of commercial invoices intelligible to the foreign importer."

It is more important to retain old business than to develop new business, in Mr. Medina's view, because, when properly handled, old business may be attended with minimum cost and effort and with maximum satisfaction. Once in a given market, stay in, is his advice, and he believes, from practical experience, that specialization is a necessity.

Prominent in the list of speakers for the convention are Secretary Hoover, Governor Fred W. Green of Michigan, Julius H. Barnes of New York, Silas H. Strawn, chairman of the board, Montgomery Ward & Co.; E. Dana Durand of the Department of Commerce and Roy D. Chapin, Hudson Motor Company.

Turner Jones, vice-president of the Coca Cola Company, Atlanta, will speak on "Store and Showroom Display," in the group session on export advertising.

"The Foreign Trade Balance" will be the subject of an address by Chairman Farrell just before the close of the convention on Friday.

Power Company Plans 150 Miles Transmission Lines in West Texas—May Also Build Steam-Generating Plant in Pecos Valley.

Dallas, Texas, May 23—[Special.]—Plans for building 150 miles of high-tension transmission lines in West Texas have been announced by J. W. Carpenter, vice-president and general manager of the Texas Electric Service Company of this city. The growth of West Texas towns and cities served by this company and the steady development of agriculture in that section, together with the discovery of oil fields in the territory in which the company operates, make it imperative that an extensive construction program be undertaken by the company.

Approximately 90 miles of the proposed construction will operate at 132,000 volts, said to be the highest now being used in Texas, while the remainder of the lines will operate at 60,000 volts. Lines will be extended to the new town of Crane City, in Crane county, to Monohans and Pyote, in Ward county, and will also serve the oil field in Winkler county. Service has been established in these towns and work is under way for the completion of the high-tension line to serve this territory as soon as possible.

A 132,000-volt line being built westward from Eastland will be supplied with current from the large generating plant at Eastland, which is being increased in capacity from 22,000 kilowatts to 37,000 kilowatts by the addition of a new steam-turbine unit. The company is also building 100 miles of 60,000-volt lines between Breckenridge and Wichita Falls and the nearby oil fields.

The lines of the Texas Electric Service Company will connect at Eastland with the transmission system of the Texas Power and Light Company, San Antonio, and the source of power for this new service will include the new Trinidad generating station of the Texas Power and Light Company in the lignite fields, having a capacity of 40,000 kilowatts, and also the electric generating station at Fort Worth, Dallas, Leon, Waco, Wichita Falls and other points, having an aggregate generating capacity of 200,000 kilowatts.

Mr. Carpenter states that a study of the situation in Western Texas is also being made with a view to developing a large steam-electric-generating station in the Pecos Valley if required by the growth and extension of business in that section. Transmission line service is now being supplied to the Chalk oil field, near Big Spring, by the Texas Electric Service Company and will be available in the Crane and Upton county fields within the next few weeks.

\$250,000 CHEMICAL PLANT FOR NEW ORLEANS.

Site Acquired and Work to Begin Immediately—Will Supply Paper Mills in South and West.

New Orleans, La., May 19—[Special.]—Remarkable confidence in the future of New Orleans, commercially and industrially, not to mention the belief in the safety of this city and section from the flood menace and the conviction that before long the National Government is going to recognize its responsibility, as regards the high-water problem to the Mississippi Valley, is shown in the purchase of a site here and the announcement by one of the large manufacturing companies of the country that it is going to build a plant in one of the industrial suburbs of New Orleans.

Work on this plant is to begin immediately. The investment represented by the first unit, including the value of the real estate, will be about \$250,000, according to Meyer Eisenman, realtor, who was instrumental in inducing the company to establish here. C. F. Dahlberg of the Celotex Company also played a strong part in inducing the industry to choose New Orleans.

The company in question is the Western Paper Makers Chemical Company of Kalamazoo, Mich. Its subsidiary, the Georgia-Louisiana Company of Atlanta, has purchased industrial acreage in both Atlanta and New Orleans for the building of plants.

The New Orleans acreage adjoins the Celotex Company's plant in the Ames industrial section, at Marrero, opposite to Napoleon avenue, and on the west bank of the river. The company bought 10 acres, and took an option on 15 more. Work on the plant is to begin immediately, it is announced. The plant, when it is open, will give employment to about 200 persons.

The Western Paper Makers Chemical Company is operating plants in Easton, Pa.; Kalamazoo, Mich.; Holyoke, Mass.; Pensacola, Fla.; Jacksonville, Fla.; Savannah, Ga.; North Milwaukee, Wis.; Burlington, Ontario, and Erith, England.

The New Orleans plant will manufacture chemicals used in the manufacture of paper, and it will serve the paper mills of Louisiana, Mississippi, Texas and the Pacific Coast.

In establishing the plant at New Orleans and the plant at Atlanta, the company has in mind the growing needs of Southern industry. The shipment of the basic products from these two plants will reduce time and lower the cost of transportation, it is stated. Raw materials used in this manufacturing process, it should be stated, originate in the South, and it is a natural economy of industrial development to save the transportation charges to the North and another set of charges when the finished product is sent back South. Officers of the company are:

President, R. S. Perry of Cave Spring, Floyd county, Georgia, president of Perry & Webster, Inc., of New York; vice-president, Ralph Snell of North Agawam, Mass., president of Keystone Products Company, Niagara Falls; treasurer, C. K. Williams of Easton, Pa., president of C. K. Williams Company, Easton; secretary, S. H. Knight of Easton, Pa., president, Paper Makers Chemical Company of that place. Directors include W. J. Lawrence of Kalamazoo, president, Superior Pine Products, Fargo, Ga.; Eli Winkler of New York, president, Isaac Winkler Bros. & Co. of New York and Cincinnati, president, U. S. Alkali Export Association.

All are men of large affairs, identified as officers and directors with various important industrial enterprises.

“Blessed Be the Ties That Bind.”

AMERICA THROUGH VIRGINIA'S INVITATION HAS THE OPPORTUNITY OF KNOWING THE SPIRIT OF ENGLAND.

By GEORGE GARNER.

Richmond, May 19.

Beneath the surface commercial and social amenities which mark the reception and entertainment of a score of foremost British business men by the Commonwealth of Virginia lie a fact and a possibility of tremendous import not only to the United States and Great Britain, but also to all the civilized world: “Never will the Anglo-Saxon peoples become embroiled in war with each other; more than likely, they will unite in an entente to maintain their world supremacy, and so assure the welfare of the world at large.” Such in a general way has been the underlying sentiment in every public speech by both American and British speakers, and such was the sentiment expressed to me in private conversation with various visitors.

Further than this, it may be said that the British are sincere in their assertion that they wish to stimulate trade with the United States for the mutual advantage of both nations, and also it may be added, on indirect official authority, that never will England ask for remission of its war debt to America, or any favor whatever on that line.

To the South this visit of these distinguished men—described in England as “the greatest business delegation which ever went out from Great Britain”—means much. Not only are these keen, shrewd, deep-searching business men scrutinizing the advantages and the progress of the South, but also they are imbibing the spirit of the South and are getting into personal, almost intimately personal, touch with its people.

“What was the real reason for your coming to the South?” I asked Gilbert C. Vyle, president of the Association of British Chambers of Commerce and head of the visiting party.

“Many of us,” he explained, “have visited the United States before, but we never have seen the South. Customarily, we land in New York; we may, or may not, run down to Washington; then, we go to the Middle West and return to New York by way of Canada, or along the Great Lakes, and sail for home. We long have wanted to see the South, and now it has progressed to such prominence in the industrial and commercial and financial circles of the world that, as business men, we must see it and know it.

“And what do you hope or expect to accomplish through this visit?” I continued.

“So much that your question is hard to answer. On business lines, we hope to stimulate trade between the British Empire and the United States. In the South we want to see the great ports, and then to see what the interior furnishes for shipment through these ports and to see the section which produces these commodities. We start at the seaboard, whence the ships sail, and work inland, to see the country and its industries.”

And right here it may be said that the visitors allow nothing to escape them. They are taking the South apart, to see what makes it tick. For instance:

“We are distressed,” I was told, “to hear that the South is turning from an agricultural to a manufacturing area; that would be very unfortunate. We have had that experience in Australia, and it would be bad for the South and the entire country if manufacturing should crowd agriculture out of the picture.”

On this point, Mr. Vyle was reassured when told that, while the South had developed tremendously in manufacturing industries, this expansion had been without sacrifice of

the agricultural industry. Indeed, the South no longer is devoted to cotton and wheat and oats and corn, but is practicing diversification and even is on the upward trend in animal production.

In various speeches on their route, more than one of the visitors had referred to the fact that American exports to Great Britain far outweighed American imports from that country, and Mr. Vyle was questioned on the subject. It was true, and was natural, he replied, that England should wish to sell more goods to the United States, but he intimated that this did not imply cut-throat competition with American industries, but rather development of British exports of such commodities as England is especially fitted to send abroad.

“Do you think the American tariff tends to keep out goods from Britain?” I asked him.

“Ah,” he smiled, “your tariff is a domestic subject, as Secretary Mellon has well said. You suggest that we, too, have been turning toward the tariff, but even at that the United States always can raise its duty rates as other countries may raise theirs.”

Finally, as to the possibility of the United States canceling the Allies’ war debts, Mr. Vyle said:

“Of this, you may rest assured: Never will England ask for remission of its debt, or any favor on that line. We agreed to pay and we will pay. If the debt should be remitted, we, in turn, would remit the debts owed to us by our Allies, but never will we ask for cancellation.”

And this statement, I was informed, may be regarded as virtually official.

The success of the visit, thus far, was reported by Mr. Vyle to Arthur Michael Samuel, director of British overseas trade, in London, direct telephone connection being established between Mr. Samuel, sick in bed in his home, and a group at the William Byrd Hotel. For nearly half an hour Mr. Samuel chatted with members of the British party, and Governor Byrd and Junius P. Fishburn, president of the Virginia State Chamber of Commerce, and felicitations were exchanged.

“We welcome this opportunity of informing you verbally across the ocean of our intense pleasure at the warm—nay, even affectionate—welcome we have received everywhere in this Old Dominion,” said Mr. Vyle. “We are deeply impressed by the great resources with which nature has wondrously endowed this beautiful State, and we are in close conference with her leading citizens in seeking the best means of furthering the trade of our two countries.”

To which Governor Byrd added:

“Virginia sends you a greeting of good-will. We have entertained in the history of Virginia many delegations, but no delegation has earned our love and respect in greater measure than this one you have sent us.”

In more practical fashion, Alwyn Parker of London, a director in Lloyd’s Bank, named “Team work” as the tie which especially binds the United States and the British Empire together. As he expressed it in a speech:

“The Anglo-Saxon race has a bond of union and a magnet of attraction more puissant than even our priceless possession of a great language and an inspiring literature, and this is our fostering genius for that most valuable of assets: Team Work. Team work is a vitalizer and we flourish beyond others because we have more fellowship, more reliance upon each other, and each of us knows he can depend on his next hand man. We know as a race that we can best find and

radiate happiness by living up to the team spirit and playing the game. It is this spirit which penetrates into every sphere of our activity, as into all our faculties, and it is this which goes farthest to insure straight thinking, freedom of investigation and stability and progress in industrial life."

As hostess, on behalf of the South and of the nation, Virginia through its public officials and its private citizens has done itself honor. Probably, never has a similar visiting group been offered such a comprehensive program of business investigation and research and social recreation and entertainment. From the morning of May 2 to the night of June 4, every moment, day and night, has been mapped out with the precision of a railroad timetable. On the schedule are visits to factories and mines, inspection of ports and railroads, observation of the agricultural industry, study of industrial and commercial and financial conditions, views of religious and educational opportunities and institutions, and, far from least, experience of the home life and hospitality of representative families of the South. The visitors came, as the eyes of the British Empire, "to see"; in characteristic American fashion, with characteristic Southern cordiality, they are being "shown."

In the two full days at Richmond, for instance, the visitors enjoyed, among other activities, a trip to Petersburg and inspection of the industries in that city; thorough inspection of Richmond, with its manufacturing plants and its historic points, and social entertainment by Governor and Mrs. Byrd, the Richmond Chamber of Commerce, the Colonial Dames of America, the English Speaking Union of Richmond and, throughout all the trip, by the State Chamber of Commerce.

The appreciation of the visitors for this hospitality is profound and sincere. If the traditional British "coldness" be real, rather than mythical, it has melted. The members of the party express their enthusiasm in spontaneous and open-hearted fashion.

In many American newspapers and by many American travelers, it is reported that the English people are hostile in spirit to the United States; such reports are emphatically contradicted and refuted by the friendliness, the fraternalism of these British visitors—representatives of the backbone and brain of the British Empire. And Virginia is going far toward cementing further the bonds which now unite the great branches of the Anglo-Saxon race and which will unite them still more closely in years to come.

Baltimore County Sells Bonds at Record Price.

As has recently been the case in other sections of the South, where municipal, county and other public improvement bonds have sold at very high prices, in some instances topping the best previous price for similar securities, Baltimore County Metropolitan District, Towson, Md., has sold a \$2,000,000 issue of 4½ per cent serial bonds to the Safe Deposit and Trust Company, Baltimore, at 108.50. This is said to be the best price ever obtained for bonds in Baltimore county, the price being greatly stimulated by their tax-exempt features which made them particularly attractive to investors. They are immune from Federal, State, county and municipal taxation in the State. The issue will be dated June 1, 1927, and will mature in series from June 1, 1938, to June 1, 1967.

South Carolina Sells \$4,500,000 of Notes.

Columbia, S. C.—South Carolina short term notes in the amount of \$4,500,000 have been sold to the South Carolina National Bank of Columbia, at par with an interest rate of 3.82½ per cent. They will be issued in denominations of \$100, \$10,000, \$25,000 and \$100,000. J. H. Scarborough is the State Treasurer.

\$15,000,000 HYDRO-ELECTRIC PROJECT IN TEXAS.

Permit Requested for First Unit on Colorado River—Dam Would Be One of Six to Generate Total of 122,700 Horsepower.

Kingsland, Texas, May 19—[Special.]—Preliminary to starting a big hydro-electric development on the Colorado River, estimated to cost \$15,000,000, the Syndicate Power Company of Dallas, controlled by the Insull interests of Chicago, has applied to the Federal Power Commission at Washington for authority to build a dam near Kingsland. Plans call for a structure 165 feet high, 2500 feet long, to create a lake 34 miles in length, with a minimum storage of 331,020 acre-feet. This unit, it is said, would appropriate at least 1,200,000 acre-feet of water per year and would generate 40,000 horsepower.

The dam is one of six for which the company has been granted authority to build by the State Board of Water Engineers at Austin. It will be located approximately six miles northeast of Kingsland in Burnett and Llano counties, the others also to be located on the Colorado River at points between Austin and Lampasas. The series of dams, it is estimated, would back water for a distance of 140 miles, impound 2,567,600 acre-feet of water and develop a total of 122,700 horsepower.

Atlanta Packing Plant Deal Involves \$1,000,000.

Negotiating a deal, said to involve from \$700,000 to \$1,000,000, Courts & Co. investment bankers, of Atlanta, have purchased the White Provision Company of that city, operating a large and modern packing plant. In a telegram to the MANUFACTURERS RECORD Courts & Co. state that they have exercised an option to purchase the White Provision Company's assets for themselves and associates and that a new company will be formed to take over these assets. It will start with approximately \$530,000 of current assets, of which \$140,000 will be in cash, and the plant value appraised at approximately \$900,000 after depreciation.

New capitalization will be as follows: \$320,000 of first mortgage 7 per cent 5-year bonds; \$500,000 of 7 per cent preferred stock, and \$50,000 of no par common stock, with no current liabilities. The Neuhoff Packing Company of Nashville, Tenn., will have a substantial interest in the new company and Lorenz Neuhoff will be its president and in active charge of the Atlanta plant. Courts & Co. state that the company will be able to draw livestock from Tennessee markets through its Neuhoff connection. The Georgia Agricultural Department shows hog and livestock on the increase in Georgia, and with the organization of this new company, it is said, a better market for livestock will be provided, while the increase in livestock production should be materially accentuated.

Contract for \$725,000 Courthouse in Arkansas.

El Dorado, Ark.—William Peterson of Little Rock has been awarded general contract by the Union County Board of Commissioners for the erection of the new courthouse here to cost about \$725,000. The structure will be four stories and basement, 161 by 92 feet, fireproof, of reinforced concrete, Indiana limestone and brick, with stone footings, built-up roof, marble and concrete floors and marble and plaster interior. Plate glass, metal sash and structural steel lintels will be used and the building equipped with two elevators. Mann & Stern of Little Rock are the architects.

Unique Farm Development of 120,000 Acres in Florida.

J. C. PENNEY-GWINN CORPORATION FARMS—AN EXPERIMENT THAT MAY REVEAL SOLUTIONS OF MANY OF OUR AGRICULTURAL PROBLEMS.

By RICHARD WOODS EDMONDS.

One of the most significant agricultural experiments of the age is getting well under way in Clay county, in the northern part of the Florida peninsula. It is the J. C. Penney-Gwinn Corporation Farms, 36 miles southwest of Jacksonville. Much has been published about it during the last year or two in the *MANUFACTURERS RECORD* and elsewhere, but its magnitude and many ramifications have never yet been adequately described.

Here is a tract of a little over 120,000 acres—one-third of the county—being developed into a co-operative community of intensively cultivated small farms, with every farmer handpicked for character, energy and ability. Most of the farms will contain 20 acres—the maximum size. A few will be of 5 and $2\frac{1}{2}$ acres, for mechanics, carpenters and others who cannot give full time to farming. Something like 7500 farms, therefore, will be the ultimate development.

Seventy-five hundred farms, or 7500 families, will probably mean 30,000 people. This number, or even 20,000 people of the high type being selected for the Penney Farms, closely knit into a co-operative buying, cultivating and selling organization, will make a community unique in this country and one which will surely solve many of the problems now harassing our farmers.

The J. C. Penney-Gwinn Corporation Farms is the creation of a man of proved business ability. It is already well under way and is growing steadily. Its community hall, where the farmers and their wives meet to learn of and to discuss the latest and best farming methods, or possible new additions to their crops, such as cultivated blue-berries, is a center around which is revolving the humming activity of a young but enthusiastic and growing community.

The co-operative general store, with a capital of \$3000, did a \$55,000 business in 1926. It sold cheaply, but paid dividends to its owners. It is the first unit of what must, with the growth of the community, become one day a hustling town with stores, banks, theaters and all the rest of it. The schools, scattered and small, will eventually grow to large proportions. Its single non-sectarian church will become inadequate, and others will rise to take care of the growing population.

To understand the principle on which the whole plan is based it is necessary to go back to the manner in which its founder, starting with \$500 of his own and \$1500 of borrowed capital, as one-third owner of a dry-goods store in Kemmerer, Wyo., 26 years ago, developed a chain system of over 800 department stores, known as the J. C. Penney Company, which will do a business in 1927 of more than \$150,000,000. The foundation principle there was a combination of individual ownership with large-scale management. The former furnished incentive, the latter furnished large-scale buying power and the expert supervision made possible by the employment of able, high-salaried executives.

With his first savings Mr. Penney bought the store in which he had been employed as a clerk. When he opened a second, he sold a one-third interest to its manager, a man he had trained in his store. He opened a third and a fourth; he kept on opening them. In every case the manager of a store was enabled to buy a one-third ownership. Eventually, when a large number of stores had been opened, Mr. Penney was able to organize a purchasing department that employed

expert buyers who knew more about their individual lines than any store manager, handling all lines, could possibly know about any one line. He was able to secure the price reductions that go with large orders. He was able to perfect a distributing system having a high degree of efficiency, so that he could supply his many stores with better values than could be secured elsewhere.

As the son of a farmer, Mr. Penney learned at first hand to appreciate the problems and the trials of the farmers. From his early years he carried over also a lively interest in farming. When his idea of individual ownership, combined with the expert management and large buying power of a great corporation, had proved highly successful in his stores, Mr. Penney began to think of it as applied to agriculture. Eventually he determined to give the idea a trial.

The first step was to secure the necessary land. This he found after much search in a tract of 120,000 acres in Clay county, Florida. The terms on which the land was offered would enable him to resell it in 20-acre farms at a price suitable for farming and still show a profit. And a profit it must show, for this was to be no philanthropy but a thoroughgoing business venture.

Some 20,000 acres were already cleared and ready for cultivation when Mr. Penney took over the land. A few farm buildings dotted it, but they were in such bad condition that he had to renovate them completely. A canning plant, located on the property, but owned by an independent concern, was bought in to be used as an outlet for much of the farm produce. The plan is for the canning factory to utilize the surplus products grown on the farms.

Due to a total lack of good roads, the land was inaccessible. The next step, therefore, was to build a complete highway and road system. A tract of 120,000 acres contains nearly 190 square miles, and if laid off in a perfect square would be between 13 and 14 miles on a side. Mr. Penney's tract is irregular in shape, and in some directions is much longer than 13 miles. Evidently many miles of roadway will be necessary to render all of his farms readily accessible.

The work of road building is proceeding rapidly. Responsibility for a large portion of such development falls upon the county in which the operation takes place. The county, therefore, issued bonds for a macadamized road connecting Green Cove Springs and Starke, 28 miles to the west, and bisecting the Penney tract. To avoid any possible delay in the sale of the bonds, Mr. Penney bought them all. Then he bid on and secured the contract for surfacing the road. At this writing—March 1—the broad public highway between the towns of Green Cove Springs and Starke is about completed, and the people of both towns are looking forward with interest to one of the earliest of the important public benefits coming from the enterprise. I say one of the first; the town of Green Cove Springs, lying just to the east of the Penney tract, has taken on new life from the activities to the west of it, and today is one of the busiest and most prosperous little towns in Florida.

State Highway No. 3, to be paved to a width of 16 feet and now under construction, will reduce the distance between Penney Farms and Jacksonville to 36 miles. The same highway, continued south from Green Cove Springs to Palatka, will afford through traffic to the east and west coasts and the

central ridge section of the Florida peninsula. Another paved highway, crossing the St. Johns River by a new toll bridge at Green Cove Springs, will reduce the distance between Penney Farms and St. Augustine from 86 miles to 24 miles. On this State and highway system as a base Mr. Penney is building farm roads that will make all his farms accessible.

Having the road system well started, the next and great step was to get farmers to settle the land. At this point a radical departure was made from the plans of all other farm-selling schemes of which I have ever heard. Ordinarily, farms are sold to all comers who will undertake to pay the price. From the first Mr. Penney adopted the same careful selective process in picking farmers that he had always used in selecting managers for his stores. Only the cream of all his applicants is accepted. The magnitude of the unique experiment has attracted much interest and articles about it have been appearing in numerous high-class magazines. Mr. Penney believes that his selective process starts here, for only men of considerably more than average intelligence and alertness read such magazines.

The articles published bring inquiries from prospective settlers. Then the individual selective process begins in earnest. Inquiries are carefully appraised and the most promising are followed up. Finally, after a number of good prospects have been located in a given part of the country, Mr. Francis Clarke, manager of the farm work, gets on the train and goes out to look them over. Personal interviews and careful inquiries about town as to the prospect's reputation follow. A few, a very few, are selected for a trial.

When a prospective buyer arrives at Penney Farms the selective process is by no means completed. The real test is still to come. Every chosen prospect is given the use of a farm for a specified test period—formerly 1 year, but now 6 months—free of charge. During that time he is being carefully sized up. He must have money enough—\$750 to \$1000—to make his first crop. He must fit well in a co-operative community, a thing few farmers will do. His habits and his character must prove to be all they were represented to be. He must be a worker with a distinct talent for farming. He need not be an experienced farmer. Mr. Penney says: "We have taken some men who have never farmed a day in their lives and who are among our best farmers. Any man who has the farming instinct, who desires to live in the country and is willing to work, will be considered, provided, of course, he has the necessary qualifications." If he proves satisfactory to the management, and the location and other conditions are satisfactory to him, he contracts to buy the farm at the price previously agreed upon. If either side is dissatisfied with the other, he moves out. In either case he has had the use of the farm rent free, and he keeps the profits of his six months' farming. It is worth noting that farther north a six months' farming period, unless carefully timed, would not amount to much; in Florida it is enough to raise one crop at any time of the year, for crops grow there the year round.

In brief, only men of excellent character, clean lives and abundant energy are chosen for the test period; only the best of them are kept. In justice to the perspicacity with which they are selected it should be said, however, that about 90 per cent of those who have been tried have been permitted to purchase their farms.

From this it is evident that the Penney farmers are hand-picked. Probably no such splendid lot has ever before been assembled in one community as those that are gathering on the big tract near Green Cove Springs.

A Penney farmer, established as owner of a 20-acre farm, on which he is to make annual payments, has the incentive of ownership. He has other advantages that a lone farmer, outside such an organization, could never have.

First, he has the advantage of much service at cost by the

Penney Farms Corporation—for example, tractor plowing, purchase of nursery stock and nursery plants, such as tomatoes, celery, etc. Then, he has the benefit of expert advice and chemical analyses of samples of his soil to determine what fertilizer it needs and for what crops it is suited. He has the benefit of the low prices for fertilizer and implements that the organization's large buying power gives it. He has the benefit of studies made by expert agriculturists of crop surpluses, carry-overs from the previous year, and probable prices for the coming year, in order to decide which of possible alternate crops will most probably yield good profits. He has the best possible instruction, if he is new to the State, in the planting and cultivation of his crops. And, finally, in the marketing seasons, he has the service of a large and capable marketing organization for the sale of his produce in the best markets and at the best prices obtainable. Thus the expenses and the risks of farming are reduced to a minimum, while its profits per unit of crops produced are raised to the maximum.

Many a colonization scheme has failed because, first, no care was used in the selection of farmers, and second, no instruction given them after they had arrived on the scene. In spite of the average farmer's conviction that he knows his business, very few of them are scientific or truly expert, even in a climate and on land with which they have long been familiar. When transplanted from various Northern States to a semi-tropical section, and from one soil type to another, very different soil, they not only need instruction, but they realize that need and readily accept it. The agricultural extension courses given on the Penney Farms are therefore eagerly absorbed and carefully used.

The work of locating farmers is progressing with moderate speed, about 100 being already on the tract. Snug, attractive little four-room farmhouses are going up on many farms in preparation for the farmers to come. It is believed that every satisfied farmer will bring friends from his own locality, and the rate of growth of the colony will thus be accelerated.

The agricultural extension course has been mentioned; it brings up one of the most important features of the venture—the Agricultural Institute. As the name implies, this is a thoroughgoing agricultural college for young men and women who want to make farming, or farm home making, their life-work. What is considered an exceptionally fine course has been worked out by a group of experts in agricultural education. Entrance requirements are an age of 16 years or more; two years' high school or the equivalent; general moral and intellectual standards required of the purchasers of Penney Farms. Only enough cash is required to pay for tuition and books, the course being arranged to permit students to earn their expenses by working alternate days. It is hoped that all graduates of the Institute will settle on Penney Farms and will continue their agricultural education through the extension course already mentioned. However, it is expected that exchange credits with other accredited agricultural colleges will be arranged for, so that graduates may go elsewhere to study if they desire to do so.

The opportunities for combining study with profitable farming, and the exceptionally high standards of character, energy and intelligence, are drawing together a group that includes many farmers of exceptional parts. Their number includes a former treasurer of a small college.

All the indications point to the development of one of the most unusual and interesting small communities to be found anywhere in the country. From such a collection of active, progressive minds, led by the vision and the rare constructive genius of J. C. Penney, should come demonstrations of the solutions of some of the most vexing problems in agriculture today. Mr. Penney's unique experiment will be watched with the liveliest interest from all parts of the country.

New du Pont Plant Near Birmingham.

NOW IN OPERATION—ANNUAL OUTPUT 15,000,000 POUNDS OF EXPLOSIVES.

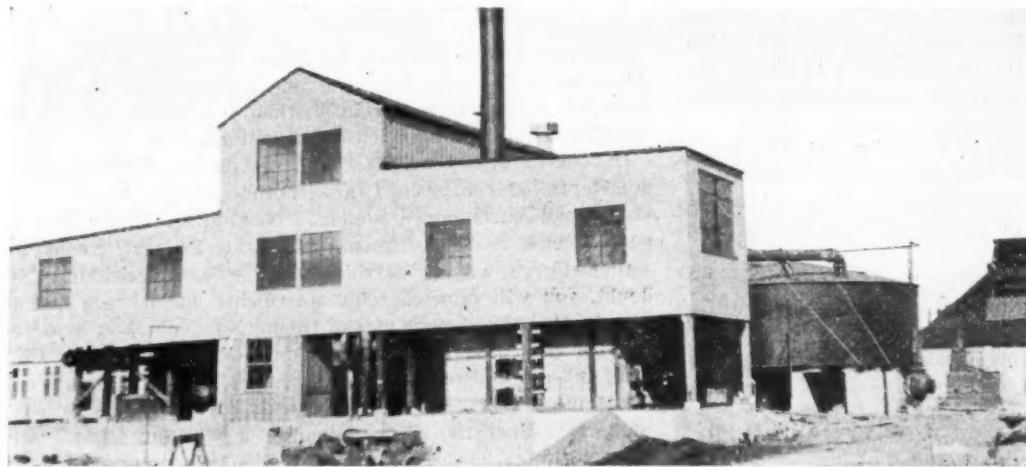
The new dynamite plant of E. I. du Pont de Nemours & Co. at Mineral Springs, a short distance from Birmingham, Ala., which has just been completed, began the actual manufacture of dynamite on May 16. The plants making acids for the dynamite have been operating for some time. This is said to be the largest dynamite plant in the South and has an

factory at the plant. These will include explosives for every kind of operation in the South, from submarine blasting to coal and metal mining, quarrying, lumbering and agricultural uses, including ditch blasting.

From an industrial point of view the completion of the plant is regarded as important since the progress in the South

in industries using explosives has been very large during the past five years. In that space of time the consumption of dynamite in the Southeastern States has increased 100 per cent. The consumption of commercial explosives is regarded as a barometer of trade since, when large quantities of these are being used, it means that mines and quarries, railroad building and other construction work are moving ahead fast.

The plant officials include E. B. Yancey, manager; H. O. Thayer, assistant manager; H. F. Brown, powder superintendent; T. F. Corcoran, acid superintendent; J. A. Mooney, acid assistant; C. F. Reed, power and maintenance supervisor; R. R. Hull, chemist, and J. C. Albrechtson, chief clerk.



REAR VIEW OF SULPHURIC ACID PLANT.

annual capacity of 15,000,000 pounds. It is contained within an area of 1280 acres and comprises some 50 separate buildings of the most modern type for this kind of manufacture and equipped with the latest machinery.

The water supply comes from a concrete dam which has been constructed to impound 65,000,000 gallons of water. Ten thousand feet of railroad and industrial trackage has been built within the plant area to handle materials from building to building, and the finished products to shipping points and magazines. The buildings in the danger area are widely separated. In the manufacture of dynamite the minimum number of men is employed.

A complete line of dynamite and gelatin dynamites will be manu-

factured at the plant. These will include explosives for every kind of operation in the South, from submarine blasting to coal and metal mining, quarrying, lumbering and agricultural uses, including ditch blasting.



INGREDIENT CONDITIONING AND MIXING HOUSE.

International Conference on Bituminous Coal.

The "Proceedings of the International Conference on Bituminous Coal," which was held at Pittsburgh November 15, 16, 17 and 18, 1926, have been published in a fine volume of 830 pages by the Carnegie Institute of Technology of that city. The conference, which was the first international gathering for the consideration and discussion of its subject, was planned and fulfilled by the Institute through a committee of the faculty. Funds to defray the expenses were

advanced by the trustees of the Institute with the understanding that the money would be repaid. There were delegates from thirteen different countries and the total number registered was over 1700. President Thomas S. Baker of the Institute says that encouraged by the success of the conference a second international congress dealing with this subject will be held at the institution in November, 1928. The volume is finely printed and bound and its contents are exceedingly interesting. Illustrations are employed wherever their use is of advantage. The book is copyrighted.

Progress in Development of New Fuels As Seen by Distinguished Chemist.

Through the Trent process New England is making progress in the effort to utilize the large Massachusetts and Rhode Island deposits of high-ash, low-volatile coals, Dr. Arthur D. Little of Cambridge, Mass., past president of the American Chemical Society, said at a dinner meeting of the Engineering Foundation, research agency of the national engineering societies, on May 19.

Taking as his subject "Impending Changes in Our Use of Fuels," Dr. Little pointed out the rapid development of anthracite substitutes, the immense prospective expansion of the gas industry in this country, and the serious consideration being given in Germany to the concentration in the Ruhr, with high pressure distributing mains of the entire German gas industry.

Speaking of the developments in New England, Dr. Little said that in the Trent process "high-ash coal is subjected to wet grinding and thereafter agitated in a large volume of water, to which a moderate proportion of fuel oil has been added.

"The oil selectively wets the coal and gathers its particles into little balls not unlike caviar in appearance. The ash, for the most part, remains with the water and is washed away. The product of the de-ashing process is a putty-like amalgam containing about 10 per cent water, 10 per cent oil and the balance as low-ash coal."

In the process as now being worked out, the putty-like amalgam is extruded and cut into briquettes which, Dr. Little said, are of uniform size, dense, very hard, low in ash, 8 per cent volatile, ignite readily, burn freely without smoke, hold the fire for a long time without loss of their shape and in general are equal if not superior to anthracite as a domestic fuel.

Discussing the numerous handicaps met by anthracite producers such as the 77 per cent increase during a generation, in depth of mines, thinning of the seams to one-half their earlier thickness, and the tendency of the miners to go on strike at critical periods, Dr. Little came to the progress taking place in low-temperature carbonization of bituminous coals. Of these developments Dr. Little said:

"There is a widespread and growing interest in the low-temperature carbonization of coal and increasing activity in the development of methods. These are progressively improving as the reasons for earlier failures are recognized. It is doubtful, however, if there is yet in this country a process that can be said to have established definitely a successful commercial status.

"It seems, nevertheless, altogether probable that within a short time certain of the processes now in the development stage will take an assured and important place in fuel technology.

"The broad opportunity for low-temperature carbonization is through the conversion of the immense available amount of cheap slack and screenings to high-grade domestic fuel."

Coming to the gas industry in this country, the speaker said:

"The gas industry is entering upon a period of great expansion, in which the highest technical and scientific knowledge will be essential for the solution of the problems and the improvement of the opportunities which are before it.

"The most significant of the developments immediately facing the industry are perhaps house heating and a greatly extended industrial use of gas. In both cases gas offers the simplest and most reliable of the present systems of automatic heating.

"Since gas has the highest form value of any type of fuel a problem of outstanding importance to the gas industry is that of developing a thoroughly commercial method for the complete gasification of coal on the grand scale."

Thinks List of Those Favoring Reconsideration of Debts Holds Many Names Which Should Not Carry Much Weight—As to Some of These Names the Manufacturers Record Agrees.

McLanahan-Stone Machine Company.

Hollidaysburg, Pa., May 13.

Editor Manufacturers Record:

I have just read the article on "Reconsideration of War Debts" in your issue of May 12, and saw the list of names appended.

Secretary Mellon is about the ablest Secretary of Treasury this country has ever had, and due consideration should be given his views, more especially when you realize that he is one thoroughly familiar with financial matters.

In looking over your list I find the names of bishops and presidents of colleges. I also notice several names that should not carry much weight. Newton D. Baker was a pacifist and made statements that the Federal troops at Valley Forge were everything that was undesirable. No doubt, you will remember his statements which were broadcast in the newspapers at the time. No doubt you also remember that Harry A. Garfield, president of Williams College, and son of President Garfield, made such a mess of coal distribution that they had to call in Mr. Calloway, a coal man, to adjust the distribution on a working basis. Mr. Garfield was thoroughly familiar with the mining of coal, and all information in regard to it, but was not a business man. Also Rev. Fosdick, who is now creating a furor in the Church, and Miss Jane Addams, who frequently gets in on the wrong side of important matters.

Would you for one minute trust your financial affairs to bishops and presidents of colleges, who are exceptional in their particular sphere, but when it comes to matters of business or finances are woefully deficient?

WILLIAM F. KIRK.

Florida Realtors Announce Tour.

On a tour of both business and pleasure, Florida realtors will leave Jacksonville on Tuesday, August 2, for Seattle to participate in the twentieth annual convention of the National Association of Real Estate Boards, to be held August 10 to 13. Reservations may be made with Paul O. Meredith, executive secretary of the Florida Association of Real Estate Boards, at Orlando, the members of the State transportation committee being E. F. Elwell, Orlando, chairman; Theodore DeHon, Stuart, and I. Beverly Nalle, Jacksonville.

The itinerary calls for stops at Columbia, S. C.; Asheville, N. C.; Oakdale, Cincinnati, Indianapolis, Chicago, St. Paul, Minot, N. D.; Spokane, Wenatchee, Wash.; Leavenworth and Seattle, to return by way of Portland, San Francisco, Los Angeles, Salt Lake City, Denver, Colorado Springs, Kansas City, St. Louis, Nashville, Atlanta, Albany, Ga., to Jacksonville.

The expense of the entire trip, including Pullman sleepers and so on, is announced as ranging from \$349.80 to \$442.09. Free side trips also will be offered from Seattle to Victoria or Vancouver, or both.

Interstate Cottonseed Crushers Meet.

The annual meeting of the Interstate Cottonseed Crushers' Association, of which F. N. Bridgers of Wilson, N. C., is president, will be held at the Hotel Chisca, Memphis, Tenn., on May 25, 26 and 27. Executive offices of the association are located in Dallas, Texas, with George H. Bennett as secretary and Robert Gibson, treasurer.

A Texas Power Company Expendng \$20,000 Daily for Improvements and Expansions.

By GEORGE D. ARMISTEAD, San Antonio.

Throughout 1926 the Central Power and Light Company expended an average of \$20,000 every day. The 1927 expansion program will necessitate an even bigger expenditure. During 1926 the company showed an increase in its total connected load for lighting of 32.2 per cent. There was an increase in ice production amounting to more than 30 per cent. The power load increased 92.6 per cent. Its water business increased 15.5 per cent.

A portion of the \$20,000 spent daily in 1926 was for the acquisition of new plants, which now number fully a third more than they did when the Morrison & McCall properties were purchased July 1, 1925. Big expenditures were made for transmission lines extensions, increases in plant capacities, growth in ice manufacturing facilities, investments to improve efficiency, extensions of service to every class of consumers all over the vast area served by the company and which is now nearing the size of some empires, since it includes nearly 70,000 square miles of territory.

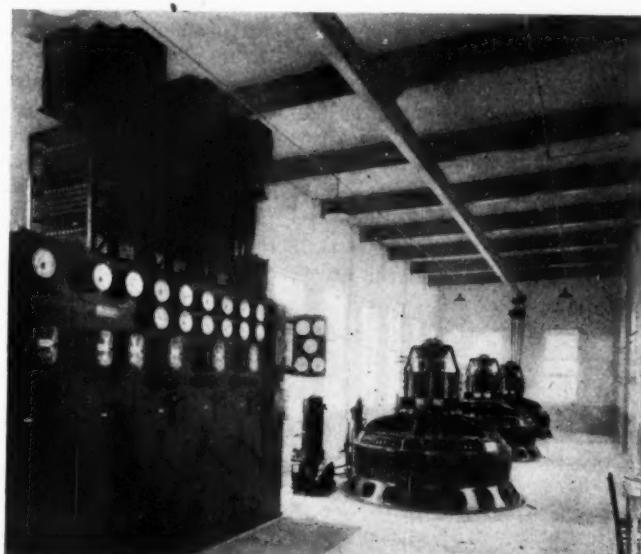
Power houses were built at San Benito, at Victoria, Corpus Christi, Crystal City, Del Rio and Uvalde, and power stations at Childress and Vernon. Work was pushed on the big hydro-electric plant on the Guadalupe River at Gonzales.

New transmission line interconnections and extensions were made in the Rio Grande Valley for connections with the big irrigation pumping plants. A transmission line was extended from Skidmore to Mathis and Orange Grove. A new line was built from Cuero to Gonzales and Luling. Another was extended from Victoria to Edna and El Campo to aid rice growers by pumping the needed water from wells through the El Campo District. Another transmission extension was built to Bay City, to Sealy and Eagle Lake and to the various pumping plants in the Eagle Lake District. A transmission line was built to effect interconnections between Fredericksburg, Comfort and Waring. Transmission service was extended to Pleasanton, Jourdanton, Poteet and Charlotte. Another line was pushed out southward from San Antonio to Devine, Moore, Pearsall and Dilley. A new power plant at Natchez, Miss, doubled the capacity of that unit of the company.

Special attention was paid the famed Winter Garden District, and a transmission line from Carrizo Springs to Asherton was built. A complete transmission system was established between the properties of the company in the Pan-

handle District of Texas to serve Vernon, Harrold, Okla-union, Childress, Kirkland, Memphis, Estelline, Hadley and Clarendon. New and modern ice plants were constructed at Childress, Vernon, Crystal City, Pleasanton, Weslaco, Edinburg, Harlingen, Robstown, Corpus Christi, Kingsville, Gonzales and Sealy. Extensive improvements were made to existing plants at McAllen, Pharr, Harlingen, Victoria and Houston.

During 1926 utility service was rendered initially to 24 separate and distinct communities. This unusual activity was brought about by the growth and development of the



GONZALES HYDRO-ELECTRIC PLANT.

area served by the company. This is perhaps the most striking indication of the progress made in Southwest and Northwest Texas last year.

Additional power plant capacity will be provided this year at San Benito, where the Rio Grande Valley, as a whole, obtains its electric service. Plants of considerable capacity will also be built at two or three other locations not yet determined. Further development will be undertaken on the



CHILDRESS PLANT OF CENTRAL POWER AND LIGHT COMPANY.

Guadalupe and the Devils rivers. Extensive transmission system interconnections for the purpose of giving service to numerous isolated towns and to obtain a better load factor on existing plants and to permit interchange of energy between systems will be made. Interchanges will also be effected between the Victoria and Corpus Christi plants, with an extension of transmission service to every part of the Winter Garden area.

In the Rio Grande Valley, a new line built close to the Rio Grande and running from the newly bought plant at Rio Grande City back to San Benito will make a complete electric "loop," which will fully protect the Valley transmission service. There will also be an interconnection linking the Eagle Lake-Columbus and Schulenburg with the Victoria system at Luling. More miles of transmission wires will be strung over the rice belt, the winter garden and the Rio Grande Valley for more pumping and industrial loads. Transmission extensions will be furnished from Uvalde to Sabinal to serve a traprock plant at Knippa. There will be an extension of the transmission system from Nordheim to Kennedy and from Eagle Lake to Columbus, Weimar and Schulenburg.

The Central Power and Light Company has spent more money in its territory than any other institution. Every business from farming to manufacturing in any part of its territory receives the active support and co-operation of the company's officers and employes. It is considered, and so described by chambers of commerce and public men generally, as the most potent and willing factor in the remarkable development which all of the area served has enjoyed the past few years.

Do You Want to Know About Florida?

The Kingsport Press, of Kingsport, Tenn., during the height of the Florida real estate boom printed for Frank Parker Stockbridge and John Holliday Perry a large edition of the book entitled, "Florida In The Making." It is an extremely interesting publication, containing a vast amount of information in regard to Florida. By reason of the sudden slump in Florida real estate, the sales were not as heavy as had been expected, and a large number of the books are left on the hands of the publishers. It would be a pity to see a publication of such great value fail of the wide distribution which was expected of it. With the return of nationwide interest in Florida, which is inevitable in the near future, and by reason of the fact that there are tens of thousands of people in this country interested in Florida and who want to learn more about its future, this book should have a ready sale even at the present time. The Kingsport Press, one of the great printing houses of the country, would be glad to correspond with people interested in the purchase or distribution of this publication.

Purchases Winter Park Utilities—Improvements Planned.

The Florida Public Service Company, Orlando, N. H. Coit, general manager, advises that the company has purchased the municipal electric and water systems from the city of Winter Park, Fla., and that the purchase has been ratified by a vote of the people. The Florida Public Service Company has also purchased the Winter Park Ice and Refrigerating Company and, having extended its high-pressure gas mains to Winter Park last summer, it is now furnishing electric, gas, water and ice service to the city. Improvements are planned in the electric and water distribution systems and power will be furnished from the Hi-tension system of the Florida Public Service Company, which feeds the central section of Florida, approximately 185 miles in length.

General Offices of New Cement Company in Augusta, Ga.

The MANUFACTURERS RECORD is in receipt of a dispatch from the Augusta Chamber of Commerce, which refers to an article in our issue of May 12, describing the new million-barrel cement plant, which is to be erected near Sandersville, Ga. The Chamber of Commerce says that the company has located permanent general offices in Augusta.

Institute of Architects Elects.

At a recent meeting in Washington of the American Institute of Architects, William B. Medary, Jr., of Philadelphia was re-elected president. Other officers were elected as follows: William Emerson, Boston, first vice-president; C. Herrick Hammond, Chicago, second vice-president; Frank C. Baldwin, Washington, secretary, and Edwin Bergstrom, Los Angeles, treasurer.

Erecting Plant for Mining and Preparation of Natural Fertilizer.

San Saba, Texas, May 21—[Special.]—Early this month the first car of natural fertilizer, totaling 60,000 pounds, was shipped from the plant of the American Fertilizer and Chemical Works to William Hirth at Columbia, Mo. The material will be used under the direction of Professor Miller, chief of the soil bureau of the Missouri University. It is said that in the mine that has been opened up by the company nature has compounded an almost perfect fertilizer product, and the rock when crushed will contain the proper proportion of potash, nitrogen, phosphate, carbon, calcium and other elements essential to plant life.

The plant site, three miles east of here, is very active. Judge Thomas F. Hawkins, president of the company, has returned after placing orders for the necessary machinery with the following firms: Williams Patent Crusher and Pulverizer Company, St. Louis, Mo.; Sullivan Machinery Company, Chicago, Ill., and Triumph Electric Company, Cincinnati, Ohio. A contract has been signed with the Texas Power and Light Company, Dallas, for electric power. The company's lines now run through the tract. The Santa Fe Railway will build a spur to the plant.

Judge Hawkins in a recent statement said:

"What is needed is a good as well as cheap fertilizer which can be delivered to the American farmer at about half the present price he must pay. Nitrate of soda from South America and potash from Europe seem to be considered as two of the essentials of the fertilizer and so long as we import this material, this condition of high prices for low value fertilizer will exist.

"We are satisfied from our own tests and from analysis and tests made by responsible chemists and fertilizer technicians that the San Saba deposits contain all that is essential for the maintenance and upbuilding of permanent soil fertility.

"Our production cost will be very low because no deep drilling or excavation work is needed. What we have is a crusher job. Our work consists only in mining, pulverizing, grinding and sacking the material and it is ready to be applied to the soil."

The company was recently organized with a capital of \$250,000, with headquarters at Georgetown, Texas. The launching of the new enterprise is the culmination of efforts extending over a period of more than 25 years by J. H. Foster, secretary of the company. The following are officers: Thomas F. Hawkins, president; B. H. Ashby, J. R. Zimmerman and Dr. J. H. Thompson, vice-presidents; W. E. Brown, treasurer, and J. H. Foster, secretary. The directors include Thomas F. Hawkins, W. E. Brown, Dr. J. H. Thompson, B. H. Ashby, W. D. Jenkins, J. H. Foster, R. H. Parks, L. H. Lacy, Lowery Foster.

An Appreciated Letter From Governor Walker of Georgia.

Executive Department.

Atlanta, Ga., May 20.

Editor Manufacturers Record:

I acknowledge receipt of your favor of May 13th and thank you for bringing the matter to my attention. Throughout my administration, I have been in position to notice and appreciate the monumental contribution you have made to the advancement of the interests of the people of the South, and I take this occasion in retiring from office to express in behalf of the people of Georgia appreciation of your efforts. I feel sure that the South is just coming into its own, and I trust that material and other evidences of appreciation may be yours in the years to come.

CLIFFORD WALKER, Governor.

Annapolis Votes \$250,000 for Water-Works.

Annapolis, Md.—After several years of agitation, voters of this city have approved a bond issue of \$250,000 for extensions and improvements to the municipal water system. Projected improvements include a filtration plant, stand-pipe of 1,000,000 gallons capacity and a belt-line system of piping. The loan was authorized by an Act of the last legislature.

University Lets Contract for \$200,000 Building.

Harrogate, Tenn.—General contract has been awarded by Lincoln Memorial University to the J. T. Jackson Lumber Company, Lexington, Ky., for the erection of an administration and auditorium building to cost from \$150,000 to \$200,000. The structure will be of reinforced concrete, brick and steel. Contracts for mechanical equipment, including heating, ventilating, plumbing, electric wiring and fixtures, will be awarded later. Harry Hake is the architect and Charles H. Kuck, associate architect, both of Cincinnati.

Contract for Cotton Office Building, Dallas.

Dallas, Texas.—General contract for a cotton office building to be erected here by Rosser J. Coke has been awarded to J. O. Everett of this city, according to an announcement by Hale Davis & Co., leasing agents. The structure will be four stories, with foundation to support 15 stories, 137 by 103 feet, of brick and wood construction. The ground floor will be used as an automobile storage and accessory business and the three upper floors divided into cotton offices and sample rooms. J. A. Pitzinger of Dallas is the architect.

Contracts for \$300,000 School in West Virginia.

C. Harrison Smith of Huntington, W. Va., who has been awarded general contract at \$217,300 for the erection of a two-story high-school building at Martinsburg, W. Va., to cost more than \$300,000 complete, wires the MANUFACTURERS RECORD that the building will be fireproof and will contain 30 classrooms, gymnasium and auditorium. No sub-contracts have been awarded, although bids are being received on structural steel, cut stone, steel sash, miscellaneous iron, plastering, roofing, millwork, marble, tile and glass. Frampton & Bowers of Huntington are the architects.

The Board of Education at Martinsburg has also awarded the following contracts in connection with the building: W. A. Bodell & Co., Bluefield, W. Va., plumbing, at \$15,104; Rosenblatt & Hunt, Charleston, W. Va., electrical work, \$8625, and clock system to the International Time Recording Company, New York, at \$1742.

New \$2,000,000 Barnett Bank Building at Jacksonville.

Proud of its distinction as the oldest bank in Jacksonville and the second oldest bank in Florida, the Barnett National Bank, in a dual event, recently celebrated the fiftieth anniversary of its establishment and the formal opening of its new 18-story, \$2,000,000 building. In a pamphlet the bank has issued is an article by Bion H. Barnett, chairman of the board of directors, entitled "Reminiscences of Fifty Years in the Barnett Bank," which recounts in interesting detail the establishment and development of the bank and Mr. Barnett's long connection with it. It was founded in 1877 by William B. Barnett and the construction of this new building marks the fourth move for expansion in the 50 years of its life and growth.

Contract for the building was signed on November 17, 1925, and construction begun two days later, James Stewart & Co., Inc., of New York being the general contractors. From the day construction started progress was rapid and uninterrupted, the work being carried on for a great part of the



NEW BUILDING FOR BARNETT NATIONAL BANK.

construction period both day and night. The building was completed by December 1, 1926, and occupied. Mowbray & Uffinger of New York are the architects.

The building covers approximately one-fourth of an acre of ground and is of steel frame construction, with heavy columns, the largest of which weigh 500 pounds to the foot and is designed to carry a load of 1350 tons. The first floor is of monumental design, in Renaissance architecture, and

extends above the entire plot to a height of 40 feet. This floor is occupied by the bank, the main banking room being finished in walnut, marble, bronze and travertine. Banking room entrances are located on both Adams and Laura streets, with an entrance for the office portion of the building on the former.

On each of the 16 floors above the banking room there are 25 offices. Office space has been subdivided and partitioned to meet special requirements of tenants, all rooms being outside. Floors are laid with linoleum and all windows equipped with Venetian blinds. Each office is provided with hot and cold water and ice water. The structure is served by elevators installed by the Otis Elevator Company of New York. Bank vaults were installed by the Mosler Safe Company of Hamilton, Ohio, and are provided with 20-inch drill and torch-proof doors and specially reinforced concrete walls electrically protected.

In addition to Mr. Barnett, officers of the bank include W. R. McQuaid, president; Don H. Barnett, Courts P. Kendall, C. S. L'Engle and Frank W. Norris, vice-presidents; George A. Kirk, vice-president and cashier; A. C. Biese, vice-president in charge of bond department; W. B. Prevatt, assistant cashier and comptroller, and L. A. Perkins, Jr., P. L. Walton, E. G. Haskell, R. D. Baldwin and George Wienbarg, assistant cashiers.

A Much Appreciated Letter.

Terminal Warehouse Company.

Little Rock, Ark., May 16.

Editor Manufacturers Record:

I have been a consistent reader of the MANUFACTURERS RECORD for a number of years. In all that time I have gotten more information about vital subjects that affect the welfare of the entire nation through your writings than from any other source and I have yet to disagree with a single measure that you have advocated.

Your interest in the South on all subjects affecting its welfare is highly commendable and I know is appreciated by every reader of the MANUFACTURERS RECORD. Your articles on the foreign debt, Child Labor law, birth control, Prohibition and flood control draw to you a strong and influential following.

My sincere wish is that you may live long enough to see America thoroughly Americanized, the Constitution of the United States respected and lived up to and the flag honored above all other flags as the ideal of liberty.

S. J. BEAUCHAMP, President.

College for Women to Expend \$820,000.

Greensboro, N. C.—Recommendations of President J. I. Foust of the North Carolina College for Women, bearing on a maintenance program, and a report of the building committee outlining plans for the expenditure of approximately \$820,000, have been approved by the board of directors of the college. Major items of construction will include a home economics building to cost \$145,000; kitchen and equipment, \$100,000; two new dormitories to accommodate 250 students, \$300,000; pavements, drives and walks on campus, \$55,000, and the addition of a west wing to the new Curry Building to cost \$90,000. Harry Barton of Greensboro has been named as architect.

Plans \$250,000 College Administration Building.

Birmingham, Ala.—Plans are being made by the Birmingham-Southern College for the erection of the proposed \$250,000 Munger auditorium and administration building to occupy the site of Owen Hall which is now being razed.

Kansas City Star Purchases 36 Presses at a Cost of Over \$800,000.

The Kansas City Star of Kansas City, Mo., wires the MANUFACTURERS RECORD that it has purchased 36 unit presses from the Goss Printing Press Company of Chicago, and that reel and electric control for them will be supplied by the Cline Electric Company, also of Chicago. The complete installation will be made by the sellers. According to an announcement in the Star, this is the largest order for printing presses in its history, as the entire press equipment of the paper will be removed. The changes have been made necessary by the growing needs of the paper and will involve an expenditure of more than \$800,000. A few months ago an order was placed with the Goss Company for the installation of six unit presses by the middle of July. It is anticipated that the entire installation of 36 will have been completed by March 1, 1928.

Hopkins Hospital to Enlarge Kitchen and Mess Building—Bids Invited.

Construction bids will be received until May 31 by the Johns Hopkins Hospital, Baltimore, Dr. Winford H. Smith, superintendent, for the enlargement of the kitchen and mess building, which will involve two additional floors to a four-story structure and a number of interior alterations. Joseph Evans Sperry of Baltimore is the architect and the following local contractors are bidding: North-Eastern Construction Company, Charles L. Stockhausen Company, Henry Smith & Sons Co., Consolidated Engineering Company, Frainie Bros. & Haigley, Morrow Bros., M. A. Long Company, Cogswell-Koether Company, B. F. Bennett Building Company, L. L. Chambers, Inc., Willard E. Harn Co., Inc., and John Hiltz & Sons Co.

Low-Phosphorous Iron for South.

Development by the Roane Iron Company of Chattanooga of a process whereby a low-phosphorous iron may be produced from the high-phosphorous ores in that and other Southern districts was announced recently in the Chattanooga News. It is stated that no new principle of production has been found, the results being attained by addition of sinters from Ducktown, and by certain combinations of ores. The significance of the development lies in the fact that certain grades of iron and steel produced in other sections from low-phosphorous ores can now be produced in the South, as is indicated by the fact that the Roane Iron Company has one furnace operating full time on the new process.

Bids on \$1,250,000 County Building.

Asheville, N. C.—Construction bids will be opened June 1 for the proposed administration building to be erected here by Buncombe County at a cost of \$1,250,000, exclusive of furnishings and equipment. As previously detailed, the building will be 135 by 120 feet, 15 stories, of brick and steel construction. Milburn, Heister & Co., of Washington, D. C., and Durham, N. C., are the architects. E. M. Lyda is chairman of the Buncombe County Board of Commissioners.

At the closing session at Atlantic City, N. J., of the annual convention of the Maryland Bankers' Association, the following officers were elected: William O. Pierson, Baltimore, president; Warren F. Sterling, Crisfield, vice-president; James W. McElroy, Baltimore, secretary, and William Marriott, Baltimore, treasurer.

Tampa Library Wants Trade Catalogs.

The attendant at the Public Library, Tampa, Fla., would like to receive catalogs of interest to engineers, architects, contractors and builders, according to A. G. Wulff, consulting engineer, of that city.

Henrico County Sells \$300,000 of Sewer Bonds.

Richmond, Va., May 17—[Special.]—A bond issue of \$300,000 for the construction of sanitary sewers, bids for the purchase of which were opened today by the Henrico County Board of Supervisors, Washington Bottoms, chairman, have been sold to Frederick E. Nolting & Co., Richmond, and Harris, Forbes & Co., New York, at \$307,860. The bonds will be issued in denominations of \$1000 each and will bear an interest rate of 4½ per cent. S. P. Waddill is clerk of the Board of Supervisors.

For \$100,000 Oil Refinery in West Texas.

C. F. Drake, secretary of the Chamber of Commerce, Big Lake, Texas, advises that F. E. Smith of Camden and El Dorado, Ark., is the representative of a refining company prospecting in central West Texas oil fields, but has not divulged the company's identity, although it owns plants at both Camden and El Dorado. The Big Lake Chamber of Commerce has agreed to donate site for a \$100,000 plant; other towns also will bid for it. Mr. Smith wires from Camden that nothing definite has been determined.

New Houston Building May Cost \$4,500,000.

Regarding a recent report that he plans to erect a 35-story building at Main St. and Rusk Ave., Houston, Texas, to cost \$4,500,000, Jesse H. Jones, president of the Houston Properties Corporation, wires the MANUFACTURERS RECORD from New York that the building will be started soon, but that the height has not been determined. A. C. Finn of Houston is the architect. It is stated that the structure will have a frontage of 150 feet on Rusk and 125 feet on Main street, to be of steel frame construction with a brick and stone exterior.

\$890,000 Spartanburg County (S. C.) Bonds Sell for Premium of \$8090.

Spartanburg, S. C., May 18—[Special.]—Spartanburg county bonds in the amount of \$890,000 have been sold to the Bankers Trust Company, New York, and the South Carolina National Bank of Greenville, Columbia and Charleston, S. C., at a premium of \$8090 and accrued interest from May 1 to the date of delivery. The bonds will be issued in denominations of \$1000 each and will bear an interest rate of 4½ per cent. Of the total, \$800,000 are for general obligations of the county and \$90,000 for highways. J. L. M. Williams is the county clerk.

Contract for Hotel Addition at Ashland.

Ashland, Ky.—General contract has been awarded by the Ashland Hotel and Realty Company, Mrs. Jennie C. Hadden, president, to the Ramsey and Gatlin Construction Company, Ashland, for an 11-story addition to the Ventura Hotel here to cost more than \$300,000. Construction will be of steel, concrete and tile floor slabs, with cement, tile and terrazzo floors and built-up roof. The addition will be 64 by 85 feet. Wyson & Bengtson of Charleston, W. Va., are the architects. Contracts for a steam-power heating plant and for plumbing have been awarded to the Ashland Heating and Plumbing Company.

A Chemical Meeting of International Importance.

Selection of 35 foreign and American chemists as the first summer faculty of the new National Institute of Chemistry of the American Chemical Society is announced by Dr. Charles L. Parsons, Washington, secretary of the society. The Institute, founded "for the promotion of science in America," will hold its first session, lasting one month, at Pennsylvania State College, and is expected to bring together hundreds of scientific workers from the industries and the universities of the United States and Canada.

The group of foreign lecturers will include Jean Piccard of the University of Lausanne, Switzerland, and Hans Tropsch, assistant director of the Coal Research Institute, Muhlheim-Ruhr, Germany. From England will come Dr. E. K. Rideal, lecturer in physical chemistry at Cambridge University, and Prof. J. C. Drummond of University College, London. Dr. James Kendall, New York University, will direct a course in advanced inorganic chemistry, and Gerald L. Wendt, Pennsylvania State College, and Dr. Marie Farnsworth, New York University, also will have subjects. Dr. Frank C. Whitmore, Northwestern University, with Dr. Piccard, will teach advanced organic chemistry, and T. W. Mason, Dr. Mary L. Willard and H. J. Olewine, all from Pennsylvania State College, will share the work.

The following will give courses in physical chemistry: Dr. Emma P. Carr, Mt. Holyoke College; Dr. Charles P. Smyth, Princeton University; Dr. Wheeler P. Davey, Pennsylvania State College; Dr. Harry N. Holmes, Oberlin College, and Victor Cofman, E. I. du Pont de Nemours & Co.; Dr. Rideal, Dr. Tropsch, Dr. Hugh S. Taylor, Princeton University; Dr. A. J. Currier, Pennsylvania State College, and Dr. D. C. Duncan, Pennsylvania State College.

Among the various courses will be: "Inorganic Chemistry," for chemists; "Inorganic Chemistry and Qualitative Analysis," for engineers; "The Teaching of Chemistry," "Quantitative Analysis," "Carbon Compounds," "Chemistry of Foods and Nutrition," "Mechanics, Heat and Sound." There will be daily conferences on "1927 in Chemistry." Forty-seven courses of study have been arranged.

The Institute will be both a clearing house for international developments in chemical science and a training school for chemists from the industries from the Federal and State services, and from schools and colleges. World leaders in chemistry will deliver lectures and direct conferences and courses.

To Encourage Naval Stores Industry in Cape Fear Section of North Carolina.

The Gore Estate Corporation of Wilmington, N. C., writes the MANUFACTURERS RECORD that it is attempting to bring the naval stores industry back to the lower Cape Fear section, and in furtherance of this purpose has leased to J. M. Willis of Ocilla, Ga., and J. H. Young of Nashville, Ga., more than 12,000 acres of turpentine timber lands in Brunswick County, about 20 miles from Wilmington. Operations will be conducted under the firm name of Willis & Young.

The lease under which the contract will operate was drawn by Lenthal Wyman of the Federal experiment station at Starke, Fla., and provides that the timber shall be cupped and not boxed. Modern methods will be used and the trees are to be clipped on one side only. Adequate fire protection methods are to be employed. The approximate number of faces to be placed on the trees should be about 350,000 or 35 crops of 10,000 faces each. It is stated that the Government intends to experiment on one of these crops in order to demonstrate that turpentine operations may be carried on successfully in that section.

\$500,000 Altamaha River Bridge Now Open for Traffic.

[Special Correspondence Manufacturers Record.]

Augusta, Ga., May 20.

Some 12,000 people attended the recent ceremonies here, marking the opening of the \$500,000 bridge spanning the Altamaha River on the Baxley-Lyons road.

The main bridge consists of one 210-foot structural steel through Warren truss swing span, two 100-foot fixed structural steel through Pratt truss spans, on five reinforced concrete piers with approaches of creosoted timber pile trestle, the north approach being 3518 feet long and the south 79 feet long. There is an 18-foot clear roadway between hubguards. The surfacing of the swing span and approach trestle is of rock asphalt. The two 100-foot spans have an eight-inch reinforced concrete floor. The total length of the main bridge is 4007 feet. There are two creosoted timber trestle overflow bridges totaling 532 feet in length. The embankment connecting the bridges and high ground is over a mile long and in some places as high as 30 feet above the natural ground line. The embankment is 18 feet wide on top.

The Altamaha River being a navigable stream, it was necessary to maintain a channel for river traffic throughout construction. It was, therefore, thought practical and economical by the contractor to base the plant layout on the use of derricks for handling materials and prosecuting the river work. Two 15-ton American steel guy derricks, one having a 120-foot boom and the other a 135-foot boom, were located on pile foundations in the river so that the mixer plant, storage yards and piers were all within the radii of the two derricks. With this arrangement it was unnecessary to erect false work or interfere with steamboat traffic in any way. The derricks were the first equipment to be erected and were effectively used in the construction of cofferdams, excavating pier foundations and driving the foundation piles.

The job was located 13 miles from a railroad, making it advisable to use local materials in so far as possible. No suitable gravel or stone deposits were at hand, but it was found that a mortar of cement and sand from the river bed was satisfactory in every respect. Such a mix was used in all concrete work and effected a considerable saving in the cost of the structure. Sand was loaded in the mixer bin by derrick and clamshell. The concrete piers were poured entirely by means of the two derricks and bottom dump buckets.

Contract for all bridges, exclusive of structural steel, was let February 19, 1926, to the Hardaway Contracting Company

of Columbus, Ga., and work began in April. The structural steel contract was let to the Roanoke Iron and Bridge Works of Roanoke, Va. The total amount of these two contracts was \$221,397. The contract for grading was let to Walter J. Bryson Paving Company, Jacksonville, Fla. Creosote material was supplied by the Southern Wood Preserving Company of Atlanta, Ga. The opening on May 5 of this year was about three months ahead of the anticipated completion of the project.

The total quantities of materials used in constructing the two bridges follows:

One thousand two hundred and twelve cubic yards concrete, 28,660 pounds reinforcing steel, 579 cubic yards excavation, 5266 lineal feet foundation piles, 28,419 lineal feet treated trestle piles, 732,538 F. B. M. treated timber, 26,220 F. B. M. untreated timber, 8631 square yards rock asphalt surfacing, 353,000 pounds structural steel and 28,000 pounds machinery.

The bridge spans the Altamaha River at a point about midway between Lyons and Baxley, Ga., and is 100 miles south of Augusta. Federal Highway No. 1, of which the Altamaha Bridge is a link, runs from Fort Kent, Maine, to Miami, Fla., and is now two-thirds paved. The entire distance through the State of Georgia, with the exception of about 20 miles, is now paved or provision has been made for paving.

This work was under the supervision of Searcy B. Black, bridge engineer for the State of Georgia; Henry E. Newton, district engineer, and R. P. Norris, resident engineer. The resident men of the Hardaway Contracting Company were: John M. Money, superintendent, and D. M. Pyler, engineer.

Contract for \$2,000,000 Theater at Knoxville.

Knoxville, Tenn.—Construction is scheduled to begin soon on a theater here to be erected by the Public Theater Corporation of New York, at a reported cost of \$2,000,000, and for which general contract has been awarded to the Thompson-Starrett Company of New York. It is stated that it will contain an auditorium to seat 3000, with a stage to accommodate both vaudeville attractions and the largest of road shows. A modern refrigeration system will be installed to provide a low temperature with a constantly changing current of air. Plans call for completion by March 1, 1928. C. B. Atkin & Co. of Knoxville will build an office structure above the theater.



\$500,000 BRIDGE RECENTLY COMPLETED NEAR AUGUSTA, GA.

THE IRON AND STEEL SITUATION

Pittsburgh Steel Market.

Pittsburgh, May 23—[Special.]—Buying of steel continues in large volume, betokening well-sustained general industrial and building activity. There has been a decline in the amount of buying since March, but that is purely seasonal, and the decline has been less than the average, being about equal to that at this date a year ago, but decidedly less than in 1925 or 1924.

Buying is of very miscellaneous character and is made up chiefly of a large number of small orders, and the best measure of buying is the rate of steel production, which is an accurate test, as nearly all the buying is for very prompt shipment. Steel production is at fully as high a rate as at this date last year, and some observers estimate the rate at about 5 per cent higher. The general average, in terms of steel ingot production, is a trifle under 85 per cent, against 93½ per cent in March, the record high month of all time. The fact that the total volume of trade is equal to that of a year ago shows that in some lines there is heavier demand, for there is a substantial deficit to be made up.

Pipe mills are fairly busy on line pipe, chiefly for natural gas lines, and have a normal trade in standard pipe for building and various manufacturing uses. They are operating at only about 70 per cent, against 85 to 90 per cent one year ago.

While the showing of the steel trade, as to volume, is satisfactory in indicating a high rate of activity in consuming lines, the condition is not particularly satisfactory to producers, who are complaining on account of prices, rather than tonnage. Various lines are easier, or quotable at actually lower prices, than a year ago. There are no quotable changes for the past week, but prices in some lines are irregular and openly quoted figures do not represent the minimum in all cases.

Fabricated structural steel furnishes an illustration of the point seen in many directions, of much physical activity without corresponding profits to producers. Consumers are faring better than producers. Fabricated structural steel lettings in April, reported by the Department of Commerce at 241,680 net tons, were the largest for any month in a year and a half, barring last August, and the total for the first four months of the year, 839,520 net tons, was the largest, by small margins, for the first four months in any year since 1923. Thus far in May lettings have been fairly heavy. Yet the large fabricating shops are not very busy and the small shops are rather slack, on account of increased capacity, and competition has been such that prices are very low on fabricated and erected work, while some of the low prices are assumed to work back to the mills on the plain shapes.

What little sheet market there is may be quoted somewhat higher than a fortnight ago. Recently the mills quite generally advanced asking prices, the trade first having an opportunity to cover at old prices, and only miscellaneous business is now going. Consumers doubt whether the advanced asking prices will hold, and the real test will come late next month when present engagements begin to run out.

Bars, shapes and plates continue easy, with the general market at 1.85 cents to 1.90 cents on bars and 1.80 cents to 1.90 cents on shapes. Consumers are covered pretty largely by contracts for the quarter, on which they have been specifying freely.

The coal strike continues to drag along without presenting important news or being a disturbing factor. Production is ample and sales are hard to make. There has been no striking in the Connellsville region and, instead of coke growing scarcer, the spot furnace coke market is weak, being down to

\$2.85 to \$3, when merchant production of coke has decreased 40 per cent from the average of March. Bessemer and basic iron at valley furnaces are off 50 cents, at \$19 and \$18 respectively, foundry remaining at \$18.50.

Birmingham Iron Market.

Birmingham, Ala., May 23—[Special.]—As long as the delivery of pig-iron equals the production, and exceeds it sufficiently to take even a small tonnage monthly from the surplus stock, the market conditions will be considered favorable. The buying is in small lots, a hand-to-mouth policy, a plan which has been in effect for several months, the aggregate showing a slight decline recently. However, the larger purchases are still being delivered on and strength is demonstrated in the urging of delivery, more iron moving from furnaces than is being manufactured. With 10 blast furnaces on foundry iron, 12 on basic and one on ferro-manganese, the average output of iron is noted. The basic iron is not placed on the open market. Though there has been a slight reduction in make of billets here, on the whole there is activity in the steel market. Indications point to an early recovery in steel making and the open-hearth furnaces now out of commission will be placed in operation.

Survey of the pig-iron consuming industries show that in several directions there is capacity operation. The larger interests melting considerable iron include the cast-iron pressure-pipe makers. The soil-pipe shops, another line of the larger consumers, are not doing as well as has been seen at times. In several of the machine shops and foundries of the district, especially those where diversification has been given attention during the past few years, there is much activity and pig-iron is being bought from time to time to meet requirements. Stove foundries are now active, but their needs at the best are not very great, except for the entire season. These interests have never purchased against any length of time ahead, satisfied that moderate purchasing and steady delivery is the more profitable. Other shops are asking steady delivery of iron, many specialties being produced and shipments being made promptly.

Furnace interests are in position to give the best of service in delivery on pig-iron. Though the surplus stock of iron is considered below normal, there is no difficulty in shipping. The decline in the total of the small-lot business has not brought about any apprehension on the part of the furnace interests. Intimation has been given that, while no business is yet announced for third quarter, the prospects are that there will be an advance in the quotations. Eighteen dollars per ton, No. 2 foundry, is being maintained firmly.

Production of cast-iron pressure pipe in Alabama is showing steady increase as compared to last year. For a while there was lagging noted in the market, but, while shipments could not be made for a few weeks in quantity as produced, there has been recuperation and the accumulated stock has been started on very materially. Quotations of pipe continues at \$36 to \$37 for six-inch size and over and reports are still heard that concessions were made. However, the lower cost of pig-iron is still commented on and differences in the year's consideration will have been covered. Indications point to continued activity at pipe shops during the third quarter, several specifications for large tonnages of pressure pipe having been reported recently, bids having been offered by manufacturers of this district.

The steel market is also showing signs of material improvement in the near future. The Mississippi disaster will bring about much work when rehabilitation starts in and iron and steel products from this district will be in demand. Rail-

roads which suffered by reason of the flood are already preparing for their rebuilding.

Another favorable prospect is the broadening of the market for products of this district by extending the water transportation facilities from this section. The Birmingham district has not yet taken up the manufacture of tubing, of which much is used in the oil fields of Louisiana and Texas. However, in wire, nails, bars, plate, sheet and other shapes, not to overlook cotton ties and railroad material, this section has been spreading out in the last two years or so.

Coal production in Alabama is holding its own and tonnage statistics of last year are being kept up with. The record output of 21,508,000 tons in 1926 may be exceeded this year if the expected spurt takes place in the near future.

Coke production in Alabama is also holding its own. By the end of this year development now in hand will be completed and in operation. Alabama then will be able materially to increase its coke production.

Old material market is unchanged, prices are low and weak and dealers are making no effort to push business, accepting what tonnage is offered and delivering steadily. Plenty of old material is available, both for dealers and for consumers.

Pig-iron and iron and steel scrap quotations are as follows:

PIG-IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$18.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$18.50; iron of 2.75 to 3.25 per cent silicon, \$19.00; iron of 3.75 to 4.25 per cent silicon, \$19.50; charcoal iron, f. o. b. furnace, \$29.00.

OLD MATERIAL.

Old steel axles	.....	\$16.00 to \$17.00
Old iron axles	.....	16.00 to 17.00
Old steel rails	.....	12.50 to 13.00
Heavy melting steel	.....	12.00 to 13.00
No. 1 cast	.....	15.00 to 16.00
Stove plate	.....	13.00 to 14.00
No. 1 railroad wrought	.....	11.00 to 12.00
Old car wheels	.....	14.00 to 14.50
Old tramcar wheels	.....	14.50 to 15.50
Machine-shop turnings	.....	8.00 to 8.50
Cast-iron borings	.....	8.00 to 8.50
Cast-iron borings (chem.)	.....	13.00 to 14.00

The Metal Market.

New York, May 23—[Special.]—Weakness in the non-ferrous metal markets last week outweighed the strong features, but at the close of the week the prevailing impression was that the bottom of the long swing downward has been reached. Thus lead prices were reduced a total of \$5 a ton during the week. Normally the makers of pigments involving lead as a base would have immediately cut the price of the various pigments to the full extent of the lead metal decline, but this time they changed only a few of the lead derivatives, feeling that the pig metal will soon start advancing again.

Zinc dropped to six cents a pound, East St. Louis, the lowest price since July, 1924, and then recovered at least \$1 per ton. Tin stays at least one and one-half cents a pound above the low point of three weeks ago. Thus these are a few of the indications that the market bottom has been fathomed.

Overproduction in the metals generally has not yet been corrected, but the low prices of the metals have automatically caused the taking of steps looking toward that end. As conditions in the non-ferrous metal industries follow closely those in the steel industry, the meeting of the American Iron and Steel Institute at New York on Friday was watched by the metals trade. Presidents of the various steel companies were, in the main, optimistic as to conditions. Predictions as to the volume of steel business in 1927 varied somewhat, some predicting some shrinkage from the total of 1927, while some hazarded an opinion that the aggregate of orders would be very close to 1926. Independent steel companies are averaging about 75 per cent of capacity operations. Judge Gary predicted a considerable net drop in unfilled orders of the United States Steel Corporation as of May 31.

Among the precious metals, platinum continues demoralized, as stocks are very heavy and demand from consumers

is extremely light. Sales of pure platinum were made during the week at \$70 to \$80 an ounce, the lowest levels in over five years. The monthly average quotation in 1926 was \$113.27 per ounce and in 1925 was \$119.09 per ounce. The price of silver made a good recovery, standing at 56½ cents an ounce on Friday, as against 55½ cents on Monday.

One of the important features of the week was the drop in the price of copper, after stability of several weeks' duration. By the end of the period some producers were selling readily at 12½ cents a pound, delivered to the Connecticut Valley, and second hands sold copper as low as 12.825 cents. Several producers refused to budge from the price of 13 cents, as they did not see sufficient demand to warrant revising the price. The present quotation of copper is three-eighths of a cent above the low point for the year. The official quotation of Copper Exporters, Inc., was reduced Friday 15 points, to 13.20 cents c. i. f. European ports. The volume of business in copper has been poor, even export sales having become stagnant after the extreme activity of the first half of the month. The largest sale in the home market involved 2,750,000 pounds for the Western Union Telegraph Company, which was purchased in the form of wire bars and finished wire. The American Brass Company has kept quotations of finished copper, brass and bronze products unchanged. However, dealers in scrap reduced prices one-eighth to one-fourth of a cent a pound.

Consumption of copper in the United States during the first quarter of the year fell short of that for the corresponding period of 1926 by 3.7 per cent, according to the American Bureau of Metal Statistics. Consumption was 206,555 for the first three months of 1927, as against 214,492 tons for last year.

The price of lead was reduced in two stages by the American Smelting and Refining Company, principal producer. The first reduction amounted to \$2 per ton and the second to \$3. The new price was 6.50 cents a pound, New York. The average price for August, 1924, was 6.55 cents, New York. The demand for lead has been quiet, and the price of lead ore is unchanged at \$85 per ton in the tri-State district.

It is in the zinc industry where overproduction is most flagrant. World stocks of zinc on May 1 were 58,500 tons, compared with 52,900 tons a month previous. Production of zinc ore in the tri-State district averages about 14,000 tons weekly, whereas sales are only of half that amount. The price of zinc ore is now \$38 per ton, or \$7 per ton under the high price of the year, which high price was said to net the ore operators only a narrow profit. Zinc sales early in the week were heavy, as the low price of six cents a pound attracted buyers. Probably 5000 tons were purchased altogether. When the price was marked up to 6.05 cents, interest waned and only carload lots were asked for. Zinc producers expect that the rehabilitation of the flood district of the Mississippi will create a large demand for galvanized products.

Tin was steady all week, with the price tendency upward. This was the strongest market of the metals. The extreme scarcity in prompt tin caused consumers to become anxious about future supplies and hence future deliveries were in best demand for a long time. Sales for the week in this country were about 800 tons. About 850 tons arrived from the Straits Settlements during the week, but practically all had been sold before arrival and it was no market factor. Spot tin sold at 67½ cents a pound at the close of the week. The metal has been fluctuating between 66 cents and 68 cents a pound for several months.

The Gibson Manufacturing Company, maker of madras, fine ginghams and yarns, will repair four warehouses at its mill at Concord, N. C.

RAILROADS

GREAT DEVELOPMENT ON FRISCO LINES. Both Industry and Agriculture Show Large Gains —Good Financial Results.

In traffic and industrial development the St. Louis and San Francisco Railway reached new heights in 1926 with the establishment of 426 new industries on its line, consisting of 18 compresses and gins, 72 material and coal yards, 43 warehouses, 101 oil refineries and loading racks, 29 miscellaneous manufacturing plants and more than 95 miscellaneous industries, including rock crushers, creameries, canning factories and grain elevators.

"Agricultural developments," the company's annual report continues, "in the territory contiguous to the lines, showed a continued healthy growth during the year. There was a substantial increase in tonnage of fruits, vegetables, poultry and dairy products over 1925, and a considerable increase in acreage planted in grapes, peaches and potatoes which should result in increased tonnage in the future."

Notwithstanding a decrease in gross revenue of \$309,320 due to the falling off in passenger business occasioned by heavy bus and truck competition, the report shows an increase of \$916,471 in net operating income due principally to economies in operation which resulted in reduced transportation cost. The report, prepared by President James M. Kurn, shows a splendid accomplishment in transportation service in 1926.

The surplus, after interest and taxes in 1926, was \$7,546,153.97, or an increase of 5.4 per cent over 1925. The excellence of this accomplishment is further enhanced when it is known that in 1925 the Frisco was able to show a surplus after interest and taxes of 18.8 per cent over 1924. The road's operating revenues for the year were \$94,406,054.28, a decrease of 0.3 per cent compared with 1925. Operating expenses were decreased to \$65,921,909.98. Net railway operating income totaled \$28,238,575.16, an increase of \$916,470.60, or 4 per cent over 1925.

Electric Signals and Control on 840 Miles From Jacksonville to Cincinnati.

Electric automatic block signals and train-control apparatus have just been placed in service on the line of the Southern Railway system between Macon, Ga., and Jacksonville, Fla., 262 miles, extending the use of these two modern protective systems over the entire line of the Southern between Cincinnati and Jacksonville, 840 miles. This is said to be the longest continuous installation of automatic train control in the United States. The electric signals automatically give advanced warning to an approaching train of another train, an open switch, a broken rail, or other obstruction affecting the circuit. The train-control apparatus is designed to enforce obedience to the signal indications and to stop a train in case the engineman is incapacitated or overlooks a signal.

Kansas City Southern Merger Fails of Approval.

The Interstate Commerce Commission has rejected upon the ground that it is not in the public interest the plans of L. F. Loree and associates to merge the Kansas City Southern, the Missouri-Kansas-Texas and the St. Louis Southwestern railroads into one system. A minority of the Commission, consisting of three members thereof, approved the plan, but the majority of the members decided against it.

Purchasing Agents in Annual Convention.

Purchasing agents and storekeepers from all the railroads in the United States, Canada, Mexico and Cuba who buy materials and supplies approximating in value several million dollars a year met in the annual convention of the Purchases and Stores Division of the American Railway Association which convened at the Palmer House, Chicago, Tuesday of this week for a session of three days. The attendance numbers about 600 members.

The importance of railroad purchasing departments can be realized by the fact that the railroads use approximately 25 per cent of the steel produced, 20 per cent of the lumber logged, 28 per cent of the coal mined and other commodities in like proportion. Approximately 60,000 separate and distinct items of material are used by each railroad and the purchase of this material and its care and distribution after being bought until it is actually placed in service comes under the direction of the members of the Purchases and Stores Division of the American Railway Association.

The principal address at the opening of the convention, according to the program was made by W. G. Besler, first vice-president of the American Railway Association and chairman of the board of the Central Railroad of New Jersey. Other prominent speakers announced include D. C. Curtis of Chicago, chief purchasing officer of the Chicago, Milwaukee and St. Paul Railroad and chairman of the Purchases and Stores Division; Samuel O. Dunn, editor of the Railway Age; John M. Glenn, secretary of the Illinois Manufacturers Association; J. H. Waterman of Galesburg, Illinois, superintendent of Timber Preservation of the Chicago, Burlington and Quincy Railroad, and H. C. Pearce, director of Purchases and Stores, Chesapeake and Ohio Railway Company.

One of the subjects considered covers the more intensive work of recovering, repairing and reclaiming discarded materials which has already developed into an industry maintained by the railroads involving millions of dollars' worth of such materials annually. Improvements to the present system of controlling material and supply requirements by use of budgets is another important subject discussed as well as plans for the still further standardization and simplification of store stock with a view of bringing about the additional elimination of other odd sizes of various materials, thereby enabling the carriers to reduce their stock sizes to a minimum. Marked progress in recent years has already been made in this matter by our railroads.

In his address Mr. Besler said that purchases of fuel, materials and supplies by the railroads of this country in 1926 alone amounted to \$1,559,032,331, the greatest sum ever spent excepting in 1923. Expenditures for iron and steel products led with a total of \$507,302,186 and fuel was second with a total of \$473,353,928. Including crossties and other timber and lumber the railroads spent for forest products a total of \$186,291,234. Purchases of cement totaled 3,126,500 barrels and of ballast 25,421,831 cubic yards.

Freight Traffic Records in Big Figures.

The volume of freight traffic handled by the Class 1 railroads in March was the greatest ever offered to them in any March on record, according to reports filed by the carriers with the Bureau of Railway Economics. Freight traffic for that month amounted to 41,816,180,000 net ton-miles, which exceeded by 2,218,535,000 net ton-miles, or 5.6 per cent the best previous record for any March, which was established in 1923. It also exceeded by 3,147,280,000 net ton-miles, or 8.1 per cent, that for March, 1926.

Freight traffic for the first three months this year amounted to 118,293,890,000 net ton-miles, the greatest ever reported

for that period in the history of the railroads. This was an increase of 6,544,591,000 net ton-miles, or 5.9 per cent, over the best previous record established during the corresponding period in 1926. It also is an increase of 12,366,501,000 net ton-miles, or 11.7 per cent, over the corresponding period in 1925.

Car Loadings Continue to Increase.

For the fifth week this year revenue freight loading exceeded 1,000,000 cars during the week ended on May 7, according to reports filed by the railroads with the Car Service Division of the American Railway Association. Total loading of revenue freight for that week amounted to 1,024,416 cars. This was an increase of 28,200 cars over the corresponding week last year and an increase of 41,382 cars over the corresponding week two years ago. The total for the week was, however, a decrease of 2024 cars under the preceding week this year, reduction being shown in the loading of coal, merchandise and less than carload lot freight, grain and grain products, forest products and coke. Increases, however, were reported in the loading of miscellaneous freight, livestock and ore. From January 1 to May 7 there were 18,280,240 cars loaded with revenue freight, which compares with 17,770,207 cars loaded during the same period in 1926 and with 17,476,346 cars in the corresponding period of 1925.

Norfolk and Western Traffic Men's Annual Meeting.

More than 250 railway traffic officers gathered at the Cavalier Hotel at Virginia Beach on Tuesday of this week for the Thirteenth Annual Traffic Department Reunion of the Norfolk and Western and the Winston-Salem Southbound railroads. The meeting included freight and passenger traffic men from all parts of the country; from Boston to Salt Lake City and from Minneapolis to Tampa. The program covered discussion of ways and means of improving the freight and passenger transportation service rendered by the two railroads and the sessions were also attended by many Norfolk shippers, civic representatives, railway operating officials and others. The annual banquet was held at night, and on Wednesday many of the delegates visited the extensive terminal and port facilities of the Norfolk and Western Railway on Hampton Roads.

Fine Record Made by Gas-Electric Car in Regular Service.

An article in the Missouri Pacific Lines Magazine for May by B. Malczewski, engineer on the DeQuincy, La., division of the system, says that the usefulness and dependability of the gas-electric motorcar is beyond the experimental stage, and he gives an analysis of the performance of the gas-electric motorcar No. 2105 operating between DeQuincy and Baton Rouge, La., 136 miles, which supports his statement. The weight of the motorcar is 54 tons and it was in service 27 months without being sent to the shops for repairs.

Mr. Malczewski also says: "The total consumption of gasoline for 1926 was 14,907 gallons, while 335 gallons of lubricating oil were used. The average number of miles obtained from gasoline and lubricating oil was 3.16 and 138.84, respectively. The average number of miles obtained between regular and flag stops was 3.88. The operating cost of the car per train-mile, including wages of crew, gasoline and lubricating oil for the month of March was \$0.1981, April \$0.1966, May \$0.2039, June \$0.2043, July \$0.2018 and August \$0.2017." It is noted that the increase in cost for May, June, July and August was due to a rise in the cost of gasoline.

TEXTILE

Contract for New Mill at Belmont.

Belmont, N. C.—Contract has been awarded by the Thies Dyeing and Processing Company to the Brown-Harry Company, Gastonia, N. C., for the erection of its new dyeing and bleaching mill here. The building will be 218 by 143 feet, one and two stories, and it is stated that work will begin at once. J. E. Sirrine & Co., Greenville, S. C., are the engineers.

Textile Mill Changes Hands.

Memphis, Tenn.—Practically all stock of the American Finishing Company, with a plant at Bodley and McMillan streets in this city, has been purchased by Abe Goodman, Memphis capitalist. The mill is located on a site of 10 acres and is equipped for bleaching, dyeing and finishing cotton piece goods, having a capacity of 100,000 yards per day. It employs about 150 operatives.

Enlarging Mill Village.

Greenville, S. C.—Contract has been awarded by the American Spinning Company to the Townsend Lumber Company, Anderson, S. C., for the erection of a number of dwellings in its mill village here. It is understood that approximately 50 dwellings will be erected in units of 15 each and that \$70,000 will be expended on the project. Each cottage will be of four rooms, with bath and other conveniences.

\$296,000 Contract on Compress at Memphis.

Robert J. Cummins of Houston, Texas, engineer for a large warehouse and compress to be erected at Memphis, Tenn., by the Tri-State Compress Company, wires the MANUFACTURERS RECORD that contract for the building has been awarded to the Kaucher-Hodges Company of Memphis, at \$296,000, and that the project is to be finished by September 1. As previously detailed, the building will be one story, 300 by 1200 feet, of frame construction with concrete outer and division walls. It will probably be equipped with sprinklers and a 100,000-gallon tank, 100 feet high.

Another Hosiery Mill for Burlington.

With the acquisition of a number of new hosiery mills since the first of the year, H. B. Skinner, secretary of the Chamber of Commerce of Burlington, N. C., advises the MANUFACTURERS RECORD that another mill will be established by the Pen-Co Hosiery Company, organized by John M. Coble and Ernest Pennington. A loft has been secured for an initial installation of 40 Scott & Williams knitting machines, with space enough to accommodate 300 machines.

\$750,000 Contract for Enlarging Cotton Mill.

Woodruff, S. C., May 19—[Special.]—A building contract for the enlargement of mill No. 2 here of Mills Mill, Greenville, H. A. Ligon, president, has been awarded to T. C. Thompson & Bros., Charlotte, N. C., through the Spartanburg office of Lockwood, Greene & Co., Inc., engineers. As previously announced, a building double the size of the present mill will be erected and from 8000 to 10,000 spindles and 700 looms will be installed. The structure will be 400 by 125 feet, two stories, to serve both as an addition to the mill and weave shed. Machinery has been purchased from the Saco-Lowell Shops, Boston; Draper Corporation, Hopedale, Mass., and the Whitin Machine Works of Whitinsville, Mass. The cost of the expansion is estimated at \$750,000.

GOOD ROADS AND STREETS

Bids for \$350,000 Bridge at Miami.

Frank H. Wharton, city manager of Miami, Fla., advises the MANUFACTURERS RECORD that bids will be opened on June 6 for the construction of the proposed Twelfth avenue bridge over the Miami River at Miami. It is estimated that the structure will cost \$350,000, including approaches.

Louisiana Asks Bids on Eight Miles.

Baton Rouge, La.—Sealed proposals will be received until June 7 by the Louisiana Highway Commission for the construction of three road projects embracing a total of over eight miles. Two projects will be located in East Feliciana parish and the other in East Baton Rouge parish.

Sell \$260,000 of Road Bonds.

Quincy, Fla.—Gadsden county road bonds in the amount of \$260,000 have been sold to John Nuveen & Co., Chicago, at 98.25, proceeds from the sale to be turned over to the State Road Department, Tallahassee, for hard-surfacing State road No. 1 in the county. It is thought that bids for building the road will soon be requested by the commission.

Maryland Roads and Bridges to Cost \$450,000.

A tabulation of bids by the Maryland State Roads Commission, Baltimore, for the construction of 12 road and 3 bridge projects indicates that the work will cost more than \$450,000. Of the road projects, four cover a total of 13.95 miles of concrete shoulders to cost \$154,985; seven, a total of 10.96 miles of concrete roads to cost \$206,351, and one project, 3 miles of bituminous paving to cost \$73,410. The three bridges will cost \$22,124.

South Carolina Roads to Cost \$825,000.

Columbia, S. C.—According to a tabulation of bids received by the South Carolina State Highway Department for the construction of approximately 85 miles of roads, with a number of bridges, the cost of the work will be about \$825,000. The proposed work will include 77 miles of paving covered in seven projects, to cost \$765,724; 7.71 miles of grading to cost \$47,639; bridge approaches to cost \$3353, and reinforced concrete bridges to cost \$7773.

Opening of Bids Postponed on \$2,000,000 Road Letting.

Nashville, Tenn.—The date of opening bids on approximately \$2,000,000 worth of road construction, which had been scheduled for June 7, has been postponed by the Tennessee Highway Department, according to an announcement by officials, who explain that detailed plans and specifications have not been completed. The department has set June 24 as a tentative date for the opening.

Book on the Motorbus in St. Louis.

The effect, beyond actual service rendered in transporting passengers, which motorbus transportation exerts on the financial welfare of a city is shown for St. Louis, Mo., by the People's Motorbus Company in an exhaustive research from public and private records made public in the form of a booklet, "\$36,000,000—Part of It Yours." The report indicates that metropolitan bus service in St. Louis furnished by the company "has increased realty values in three years more than \$36,000,000," and that "this is worth more than \$500,000 a year to the city in additional tax revenues."

Plans for Two Florida Bridges to Cost \$1,000,000 Each.

Panama City, Fla.—Tentative plans have been prepared by the State Road Department, Tallahassee, for two bridges to be constructed across St. Andrews Bay on the Gulf Coast Highway, at a cost of approximately \$1,000,000 each. One will be located at Long Point, five miles east of Panama City, over the East Bay, and the other at Sulphur Point, four miles west of Panama City, over West Bay. The total length of the former, exclusive of hydraulic fills at each end, will be 2680 feet, consisting of a series of steel truss spans of 225 and 180 foot lengths, with a draw span of 240 feet to provide a clear channel of 90 feet on each side of the pivot pier. Approaches to the steel trusses will be 1000 feet, consisting of concrete pile trestle, with steel or concrete girders and concrete floor.

The length of the West Bay Bridge, exclusive of hydraulic fills at each end, will be 3740 feet, to consist of a series of steel truss spans of 180 and 160 foot lengths and a 200 foot draw span, providing a 70 foot channel on each side of the pivot pier. Approaches will aggregate a length of 800 feet and will be of the same design and construction as the East Bay Bridge approaches. Provision has been made for a 20-foot clear roadway on each bridge, the entire superstructure to rest upon concrete masonry piers, some of which will extend to a height of 60 or 70 feet from their base in the bay.

The bridges will be located on State road No. 10 and will be constructed from a \$2,000,000 bond issue voted by Bay county.

Virginia Invites Bids.

Richmond, Va.—Sealed bids will be received until May 31 by the State Highway Commission for the construction of four road and three bridge projects, the former including two projects covering the construction of 6.46 miles of concrete highway and two projects covering 8.01 miles of grade and drainage. The bridges will include a 905-foot bridge on the east side of Lynn Haven Inlet, to consist of a 32-foot single leaf bascule draw and 31 25-foot concrete spans; 80-foot steel truss bridge four miles west of Boydton, and 176-foot reinforced concrete bridge near Pleasant Hill, N. C.

Two Texas Counties to Build Roads.

Paducah, Texas.—Cottle county plans to build 60 miles of State highway No. 28, formerly the Del Rio-Canadian Highway, which traverses the county from north to south, and for which it has \$650,000 available. Nagle, Witt, Rollins & Gilchrist of Dallas are the engineers. The same firm is also doing the engineering work on a road project in Kent county, which will embrace 35 miles of highway No. 84. A county bond issue of \$200,000 will be matched by a similar amount from the State Highway Commission, Austin, to pay for the work.

West Virginia Asks Bids on 57 Miles.

Charleston, W. Va.—Bids will be received until June 9 by the State Road Commission on 10 projects covering a total of approximately 57 miles. The work will include four projects embracing a total of 19.5 miles of grade and drainage; two, embracing a total of 8.53 miles of concrete, brick or bituminous macadam, which will be awarded in one contract; one of 30.5 miles of stone, slag or gravel surfacing; 5.86 miles of base stone, 6.25 miles of bituminous macadam and 7 miles of concrete.

MECHANICAL

A New Type of Portable Unloader.

Unloading sand, gravel, crushed stone, coal, coke, etc., from hopper bottom cars without the use of a pit or trestle is a problem successfully met by a new Jeffrey portable unit, The X-Track-Tor. This device is a product of the Jeffrey Manufacturing Company, Chicago, who say that it owes its success to a light compact design made possible by the use of a specially protected belt instead of a heavy double strand of chain and scraper flights. The breakage of coal handled



UNLOADER WITH TWO COVER PLATES OFF.

by this new unit it is claimed, is less than by any other method of unloading. It is equally as successful with large lump coal as it is with the smaller sizes, or with sand, gravel, crushed stone, etc.

This unloader rests over the rails under the hopper of the car. It takes up a space of only $2\frac{3}{4}$ inches between the bottom of the hopper and the top of the rail. The weight of the complete machine is a little over 600 lbs., but the motor and other parts are detachable, leaving the heaviest pieces to handle about 450 pounds.

In operation the flow of the material from the car is regulated by the hopper opening and by removable cover plates over the belt. No other regulation is necessary as the unloader will work when completely buried in material and its capacity is governed only by the capacity of a secondary unit to which it delivers. As the material flows out of the car, the removable cover plates are removed permitting the X-Track-Tor to completely empty all the material from the farthest side of the car hopper. When unloading from a car having several hoppers the machine can be easily moved along the rails to the next hopper position or the car may be pushed along for the same result.

The X-Track-Tor is built with either a gasoline engine or an electric motor which are detachable for convenience in handling. The machine may be operated from an ordinary electric light current. The conveyor is 13 feet long and 20 inches wide overall. A 16-inch 3-ply rubber covered belt is used.

This new unit is used in a variety of ways at industrial plants, also by contractors and others. For example, there is a dealer who places the machine on a pair of wooden horses alongside of railroad cars and unloads bricks, laths, tiles, cement bags, boxes, etc., conveying them to storage piles or to an adjacent storage house.

Oil Return Wall Plate Metal Packing.

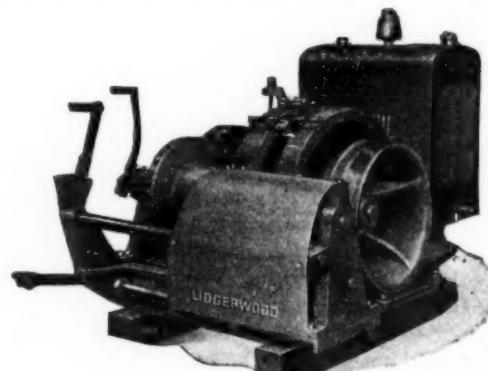
The Garlock Packing Company, Palmyra, N. Y., has brought out a new type of metal packing which is known as "Garlock Oil Return Wall Plate Metal Packing for Gas and Air Compressors." This packing is designed to replace the oil wiper packing that is now used in the wall plate stuffing boxes of most of the gas and air compressors that are now on the market. This new packing, the manufacturers state, will wipe every drop of oil from the compressor piston rod and

return it freely to the crank case. In addition to the oil wiper feature this packing is so designed that it will take care of the vacuum and low pressure on certain types of power cylinders. It is also claimed that it greatly reduces the amount of oil consumed, prevents oil being deposited on the discharge valves, valve chambers, pipe lines and receivers, checks oil from being discharged by the cylinder into the compressed air and gas and stops the forming of carbon deposits and oxidation. The packing is furnished in either split or solid case, which is bolted to the partition wall plate after the stuffing box is removed.

Builders' Gasoline Hoist.

This halftone cut illustrates a new type of builders' gasoline hoist with reversible sheave, a product of the Lidgerwood Manufacturing Company, 96 Liberty street, New York.

This hoist operates building-material elevators, either single or double cage. The sheave has a powerful band brake. It also has a hoisting duty of 1400 pounds at 220 feet per minute and the drum 2500 pounds at 150 feet per minute.



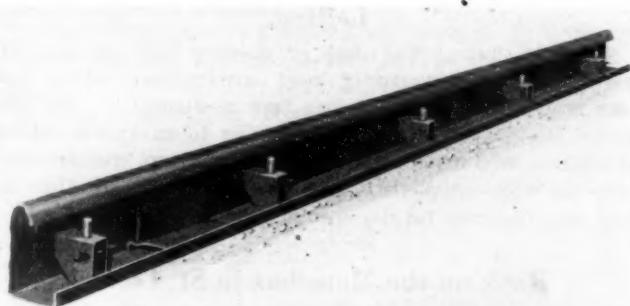
HOIST SET UP FOR OPERATION.

All operating levers for both drum and sheave are on one side of the hoist in a position convenient for the operator.

The elevator sheave and hoisting drum operate independently of each other.

Road Form With Stake Pockets.

A notable improvement in the construction of the Carr Road Form is shown in the accompanying picture. The manufacturers, the Lakewood Engineering Company, Cleveland, Ohio, direct attention to the fact that this form is now



ROAD FORM-JOINT AND POCKETS.

provided with four stake pockets in each 12-foot section. High carbon steel stakes of $\frac{7}{8}$ inch diameter are used, the form being locked to the stakes by a simple key wedge.

The company further remarks that this improved method of staking, together with the other features of the round top, wedge lock joint, and 12-foot section have created much favorable comment among both engineers and contractors.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

An asterisk (*) following an item indicates that the enterprise has been reported in a preceding issue.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$30.00 a year.

Bridges, Culverts and Viaducts

Proposed Construction

Alabama—State Highway Comm., Montgomery, receives bids June 22 for about 12 bridges and culverts, and road: Reinforced concrete culverts on State Highway through Russellville; Marion County—3 steel concrete bridges on road between Guin and Hamilton; steel concrete bridge over tracks of Mobile and Ohio Railroad at Alberta City, on Tuscaloosa-Birmingham highway; Jefferson County—4 reinforced concrete bridges and repair 2 bridges on road between Bessemer and Tuscaloosa; 4 mi. gravel road, southward from Hamilton on road between Guin and Hamilton; creosote timber bridges on road between Uniontown and Newbern; W. A. McCalla, State Highway Engr.

Florida—See Roads, Streets, Paving.

Fla., Miami—City, Frank H. Wharton, Mgr., receives bids June 6 for N. W. Twelfth Ave. Bridge over Miami River. 5-19

Fla., Ormond—City, George N. Rigby, Mayor, considering free bridge over Halifax River.

Fla., Panama City—State Road Dept., Tallahassee, plans 2 bridges across St. Andrew's Bay on Gulf Coast Highway, State Road Dist. No. 10; East Bay Bridge at Long Point, 5 mi. east of Panama City, over East Bay; total length, exclusive of hydraulic fill, 2680 ft., consisting of series of steel truss spans, 225 and 180 ft. long and 250-ft. draw span, providing 90-ft. clear channel on each side Pivot pier; 1000-ft. approaches of concrete pile trestle, steel or concrete girders, concrete floor; West Bay Bridge at Sulphur Point, 4 mi. west of Panama City, over West Bay; total length, exclusive of hydraulic fill, 3740 ft., consisting of series of steel truss spans, 180 and 160 ft. long, 200-ft. draw span, providing 70-ft. channel on each side Pivot pier, 800 ft. aggregate length of approaches to steel trusses, of same design as East Bay Bridge; each bridge provides for 20-ft. clear roadway; entire superstructure on concrete masonry piers, some 60 to 80 ft. high, from base in bed of bay; estimated cost of each over \$1,000,000; J. L. Cresap, State Highway Engr.; George L. Derrick, Bridge Engr. 3-24

Fla., Sanford—State Road Dept., Tallahassee, plans bridge across St. Johns River 5 mi. north of Sanford; J. L. Cresap, State Highway Engr.

Fla., Vero Beach—State Road Dept., Tallahassee plans bridge across Kissimmee, as part of Vero Beach-Tampa Cross State Highway; span and approaches over 1 mi., over southern part of Lake Kissimmee; bridge, 2000 ft. long with draw at channel; J. L. Cresap, State Highway Engr.

Ga., McRae—Telfair County Comms., plan letting contracts for various bridges, including bridges across Sugar Creek and Gump Swamp.

Ga., Waycross—City Comm., W. E. Lee, Clk., reinforced concrete and Amico iron bridge across city canal on Brunel St., between railroad and Kings Daughters' Hospital.

Kentucky—See Roads, Streets, Paving.

La., New Orleans—Louisiana Highway Comm. receives bids July 6 for foundation piers for steel superstructures and approach trestles to 2 bridges on Chef Menteur Highway, Orleans and St. Tammany Parishes: Chef Menteur Bridge: two 250-foot steel fixed spans, 270-ft. steel wing span, three 33-ft. reinforced concrete deck girder spans on each end, resting on precast concrete pile bents; 7400 cu. yd. structural excavation, 3600 cu. yd. class A concrete in girders, piers and pile caps, 5200 cu. yd. class B concrete in pier bases, 252,000 lb. reinforcing steel,

1,125,000 lb. fabricated steel in caissons, 1440 lin. ft. precast concrete piling; Rigolets Bridge: three 400-foot steel fixed spans, one 400-ft. steel wing span, three 43-ft. reinforced concrete deck girder spans on south end and fifty 43-ft. reinforced concrete deck girder spans on north or Slidell end, concrete girder spans, resting on precast concrete pile bents; 9700 cu. yds. structural excavation, 7870 cu. yd. class A concrete in girders, piers and pile caps, 6200 cu. yds. class B concrete in pier base, 1080 cu. yd. class B concrete in seal course, 1,000,000 lb. reinforcing steel, 1,137,000 lb. fabricated structural steel in caissons, 18,400 lin. ft. precast concrete piling; J. M. Fourmy, State Highway Engr. 4-28

Maryland—State Roads Comm. received low bids for 3 bridges. See Roads, Streets, Paving.

Md., Cumberland—Allegany County plans crossing over Western Maryland Ry. and C. & O. canal, to link up Potomac River bridge at Kifer, Md., on Maryland side.

Miss., Macon—Noxubee County Board of Supvrs., John A. Tyson, Chancery Clk., receives bids June 6 for 4 wooden bridges on Fox Trap Road, Dist. No. 2.

Mo., Jefferson City—City receives bids in June for Dunklin Street Bridge; F. E. Ross, City Engr.

Mo., St. Louis—Wm. R. Compton Co., New York, who will finance Alton-St. Louis Bridge Co. project, will soon offer new issue of \$1,750,000 first mortgage sinking fund 7% gold bonds, an issue of \$700,000 7% debentures of company. 5-5

North Carolina—See Roads, Streets, Paving.

N. C., Troy—State Highway Comm., Raleigh, received low bid from T. A. Loving, at \$27,000, for concrete bridge on Route 70, between Troy and Bisco. Montgomery County.

South Carolina—See Roads, Streets, Paving.

S. C., Pelzer—State Highway Dept., Columbia, considering bridge across Saluda River at Mill 4; Samuel McGowan, State Highway Commr.

Tex., Dallas—Hollis Bridge Co., capital \$10,000, incorporated; Frank E. Austin, 4321 St. Johns Dr.; F. F. Florence, 3215 Colonial St.; W. O. Connor, 4000 Armstrong St.

Tex., Galveston—Galveston County, John M. Murch, County Auditor, receives bids May 28 for Sixty-first St. Bridge and Offatts Bayou.

Tex., Houston—Harris County Drainage Dist. No. 2, C. W. Fellow, Commr., receives bids June 2 at office of H. L. Washburn, County Auditor, for bridge in Dist.

Tex., Liberty—State Highway Comm., R. S. Sterling, Chmn., Austin, allotted \$240,000 toward reinforced concrete and steel bridge across Trinity River, Liberty County, on Highway No. 3; County to furnish \$50,000; S. J. Treadway, County Engr.; bids soon.

West Virginia—State Road Comm., Charleston, receives bids June 8 for 5 bridges: Fayette County—Honey Creek Bridge, steel deck truss superstructure, 150-ft. and four 25-ft. spans; about 800-ft. Cotton Hill Station Bridge, across New River, steel deck truss superstructure, three 185-ft., five plate girder spans; Mason County—Salt Creek Bridge, concrete deck girder with concrete substructure, two 30-ft. one 45-ft. spans; Tombleson Bridge, concrete deck girder, concrete substructure, two 35-ft. one 45-ft. spans; Putnam County—Robertsburg Bridge, concrete deck girder, concrete substructure, two 45-ft., one 50-ft. spans; plans on file and from Div. Engr.; E. B. Carskadon, Sec.

W. Va., Paw Paw—State Road Comm., Charleston, plans receiving bids soon for

bridge over Potomac River at Paw Paw; B. E. Gray, Div. Engr., Keyser.

Contracts Awarded

Ga., McRae—Telfair County let contract to Ed Pettus, Montgomery, Ala., for 9 creosoted timber bridges, Kyrock door covering; cost about \$35,000. 12-2-1926

Miss., Iuka—Tishomingo County Board of Supvrs. let contract to Champion Bridge Co., Wilmington, Ohio, at \$13,000, for bridge over Clear Creek near Oldham gravel pit.

N. C., Asheville—City, John N. Cathey, Mayor, and Buncombe County Comms. let contract to Beeler Co., Johnson City, Tenn., at \$217,000 for 1225 ft. reinforced concrete McDowell St. viaduct over Southern Ry. tracks. 4-21

N. C., Greensboro—Virginia Bridge & Iron Co., Roanoke, Va., has contract to supply steel for 12 underpasses and bridges to be constructed by Northern Construction Co., Contractors, S. Davie St. 5-12

Tex., Austin—City, Adam R. Johnson, Mgr., let contract to C. A. Mauprais, 819 W. Twelfth St., for reinforced concrete bridge on Guadalupe St. at Thirty-eighth.

Tex., San Antonio—City, John W. Tobin, Mayor, let contract to Walsh, Burney & Moore, Frost Bank Bldg., to extend Martinez Creek Bridge on Fredericksburg road.

Canning and Packing Plants

Fla., Frostproof—Paul Stanton will begin work in 2 weeks on plant with daily output 10,000 cans grapefruit; 106x112 ft.; galvanized siding and roof; wood floors; contract not let. 5-12

Tenn., Winchester—B. A. Grisard and others interested in establishing canning plant. See Want Section—Machinery and Supplies.

Tex., Corpus Christi—Jack Frost Packing Co., Inc., Municipal Pier, has building; will install canning plant.

Clayworking Plants

Miss., Hattiesburg—H. M. Crawford, S. J. Gaddy, 810 Adeline St., and M. H. Cox, reported, acquired Riverside Brick and Mfg. Co.'s plant and 80 acres land at Riverside, will organize American Brick Co., with \$80,000 capital; plans constructing brick and other clay products plant; increase daily output 33,000 to 70,000 bricks.

Mo., Nevada—John Noone, Danville, Ill., reported, acquired Norman Tile and Clay Co.; will operate.

Mo., St. Louis—Standard Press Brick and Tile Co., capital \$25,000, incorporated; C. Spier, 5739a Page St.; E. J. Winter.

Tex., Jasper—Chamber of Commerce, Joe H. Burris, Sec., interested in having brick plant established by outside capitalists.

Coal Mines and Coke Ovens

W. Va., Lobata—Crystal Block Mining Co., J. M. Tulley, Gen. Mgr., Sprigg, construct new tipple, daily capacity 2000 tons per 8 hrs., wood and corrugated steel; cost of buildings \$25,000; equipment \$30,000; install shaker screens, loading boom and conveyors. See Want Section—Machinery and Supplies.

Cotton Compresses and Gins

La., Arcadia—Dixie Gin Co., capital \$12,500, incorporated; W. S. Durrett, R. C. Ferguson, Ben F. Durrett.

La., Haynesville—Haynesville Cotton Warehouse Co., W. P. Bauman, Pres., will open

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

bids in about 10 days for plant; 150x200 ft; brick; concrete floors, built up roof; F. C. McElhanan, Homer, Archt.

La., Homer—C. O. Ferguson, G. G. Nelson and associates, reported, organized People's Compress Co., capital \$50,000, to construct \$75,000 cotton compress under supervision E. N. Phillips, 139 Halliday St., San Antonio, Tex.

Okla., Faxon—Flu Co-Operative Gin Co., capital \$30,000, incorporated; D. B. Ferris, S. J. Wagner.

Tenn., Memphis—Robert J. Cummins, Bankers Mortgage Bldg., Houston, Tex., wires: "Contract Tristate Compress Co.'s compress and warehouse awarded Kaucher-Hedges Co., Shrine Bldg., at \$296,000; subcontractors not yet chosen; work to be finished Sept. 1." 4-21

Tex., Barstow—Barstow Gin Co., capital \$20,000, incorporated; A. M. Deck, J. C. Wilson, N. M. Wilson.

Tex., Corpus Christi—Port Compress Co., Laredo and Eckerd Sis., reported, plans addition to compress, cost \$200,000; soon open bids for construction.

Tex., Edgewood—Brooks & King Gin Co., capital \$12,000, incorporated; W. A. Brooks, J. E. King, Kate McMillen.

Tex., Paducah—Hobbs Gin Co., capital \$36,000, incorporated; R. L. Hobbs, Jr., J. W. Goodwin, W. W. Goodwin.

Cottonseed-Oil Mills

N. C., Raleigh—Buckeye Cotton Oil Co., Gwynne Bldg., Cincinnati, Ohio, advises: "Purchased Raleigh mill of International Vegetable Oil Co. and when satisfactory plans are completed expect to make improvements which will enable us to use Raleigh as an important center in our cotton oil milling operations."

Tex., Wichita Falls—Wichita Falls Cotton Oil Co., Box 991, Frank Kill, Pres., will erect addition with daily output 100 tons of cottonseed products; 60x230-ft. seed storage house; reinforced concrete, concrete floors; cost of building \$26,000; Reid & Costley have contract at \$20,000; Walker & Dixon, Archts.

Drainage, Dredging and Irrigation

Miss., Asa—Panola Quitman Drainage Dist., Lomax B. Lamb, Mark, Miss., construct levee, 15,000 yds., embankment; bids until June 2; Elliott & Harman Engineering Co., Engr., McCall Bldg., Memphis, Tenn. See Want Section—Bids Asked.

Tex., Fort Stockton—Reclamation Dept. of U. S. Government and Pecos Valley Water Users Assn., R. H. Gray, Executive Sec., both interested in 40,000 acre irrigation project; land located in Pecos, Ward and Reeves Counties; reported, soon make plans for building \$2,000,000 dam on Pecos river at Red Bluff; dam to be built by the U. S. Government and the Farmers.

Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ark., Emmet—Arkansas Power & Light Co., Pine Bluff, reported, construct power line to Emmet.

Fla.—Florida Public Service Co., 100 E. Central Ave., Orlando, N. H. Coit, Gen. Mgr., advises: "Company has purchased former municipal electric and water systems, ratified by vote of people May 10; also purchased Winter Park Ice & Refrigerating Co.; company extended high pressure gas mains to Winter Park; is now furnishing electric, gas, water and ice service to Winter Park; considerable improvements are planned in electric and water distribution systems; power will be furnished from hi-tension system of Florida Public Service Co., which feeds central section of Florida, approximately 185 miles in length." 5-19

Fla., Pensacola—City and Gulf Power Co., reported, extend lighting system.

Fla., Plant City—Board of Public Works let contract to Guy O. Parker for installing white way; cost \$20,000. 5-21

Louisiana—Thompson Ross & Co., Chicago, Ill., offering 12,000 shares of \$7 dividend series preferred stock without par value of United Public Service Co., a New Jersey corporation, lately a noted acquiring capital stock of United Public Utilities Co.

In writing to parties mentioned in this department it will be of advantage to all concerned

Southern United Ice Co., and Southern United Gas Co.; these 12,000 shares and 5000 additional shares of preferred stock, together with 300,000 shares of common stock, \$1,550,000 of 2 yr. 6% notes and \$2,000,000 of 15 yr. collateral trust bonds of company presently to be outstanding, will be used in exchange for capital stock of the subsidiaries to be acquired by the company for working capital. 5-12

Maryland—Electric Public Utilities Co., offices Dover, Del., and Chicago, reported, applied to Public Service Comm., Munsey Bldg., Baltimore, for permission to purchase following companies: Home Electric Co., Lonaconing; Emmits Electric Co. of Frederick County, Antietam Electric and Power Co., Washington County; Midland Electric Light Co., Allegany Co.

Mississippi—Southern States Utilities Co. of Louisiana, F. S. Moreau, V.-Pres.-Gen. Mgr., Union Indemnity Bldg., New Orleans, La., advises: "We sold all of our small electrical properties in Mississippi to Condon Engineering Co. of Chicago (General Power & Light Co.)."

Miss., Liberty—Xavier A. Kramer, McComb, reported, granted 25 year franchise to construct and operate electric light and power plant.

N. C., Roanoke Rapids—Virginia Electric and Power Co., Richmond, Va., R. J. Throckmorton, Gen. Mgr., Electric Dept., advises: "Company has acquired certain Riparian rights on Roanoke River, near here; acquiring of these rights will of course have some bearing on future hydro-electric development of Roanoke River, but at this time we have no definite plans regarding this future development."

N. C., Winton—Virginia Electric and Power Co., Richmond, Va., reported, negotiating for town's electric distribution system and franchise.

Okla., Allen—Central States Power & Light Corp., 408 Kahl Bldg., Davenport, Iowa, will erect plant; daily output 1200 kw. hours; 50x90x20 ft.; steel construction; concrete floors; cost of equipment \$11,000; equipment purchased.

Okla., Howe—Lincoln Power Co., capital \$500,000, incorporated; David Reid, 1622 N. A. St., Fort Smith, Ark.; J. C. Carr, Howe.

Okla., Oklahoma City—United Power and Light Co., capital \$30,000, incorporated; C. N. Watts, Aubrey C. Chandler, both Stratford; Robt. K. Johnson, Oklahoma City.

S. C., Charleston—South Carolina Power Co., Ernest L. Godchalk, supt. electrical dept., reported, expend \$1,000,000 in improvements in 1927; double capacity of power plant, lay street-car rails, construct power line to Folly Beach.

Tenn., Watertown—Town votes in July on \$10,000 bonds for installing power transmission lines for city electric light system; W. J. Scott, Mayor.

Tex., Amarillo—Southwestern Public Service Co., L. L. Ferre, Gen. Mgr., advises: "Regarding second unit of our generating station have arranged with Day & Zimmermann Engineering & Construction Co., 16th and Walnut Sts., Philadelphia, Pa., to proceed with erection and work has already begun; we have contracted with General Electric Company for a 5000 kva., 13,200 volt turbo generator and have also placed orders for 2 additional Stirling boilers at 860 h.p. each; contracts are also now being let for steel work of the building and other necessary equipment; work will progress from now on until it is finished." 5-12

Tex., Amarillo—City, reported, plans white way system on West 8th St.; Jeff D. Bartlett, Mgr.

Tex., Austin—State Board of Control, Austin State School, receives bids May 26 for improvements to power plant, etc. See Want Section—Bids Asked.

Tex., Beeville—Central Power & Light Co., Frost Bldg., San Antonio, reported, acquired site for sub-station; will construct high line connecting Corpus Christi, and Victoria, via Sinton, Beeville and Goliad.

Tex., Dallas—Bauer, Pond & Vivian, New York; Warren A. Tyson & Co., Inc., Philadelphia, Pa., and Pearson, Erhard & Co., Boston, Mass., offering \$1,750,000 first mortgage 10 year 6 1/2% gold bonds, Series A, with warrants of Pecos Valley Power & Light Co., G. I. Rhodes, Pres.; company is erecting oil burning power plant on Pecos River, with brick, steel and concrete building, steel frame outdoor step-up transformer station, 60,000 volt transmission lines, 13,200 volt distribution lines and steel frame step-down substations; system as initially constructed planned to be of 12,000 kw. capacity, which it is expected to be increased to 18,000 kw. capacity

Manufacturers Record

within a few months and 24,000 kw. capacity within 2 years; company is constructing an extensive power system to serve oil fields of Western Texas near Pecos River; company has long-term contracts for entire electric power requirements of Gulf Production Co. and Marland Oil Co. of Texas, in Upton-Crane County district, and Big Lake Oil Co., in Big Lake district; these three companies state that their aggregate requirement will be at least 3500 kw. by Oct., 1927; Ford, Bacon & Davis, Inc., 115 Broadway, New York, Engrs. and Managers of property, estimate that ultimate power requirements of present proven acreage will exceed 12,000 kw. average load and that entire requirements of entire territory to be served will be greatly in excess of this amount; more than 21 oil and pipe line companies, including many large producers, now operate in the territory to be served, which includes Big Lake, World, Hurdle, McElroy, Church-Fields and other pools; active negotiations looking to complete electrification of these fields are now under way. 5-5

Tex., Del Rio—Texas Central Power Co., Frost National Bank Bldg., San Antonio, reported, begin construction in fall on dam and hydro-electric development on Devil's River; has 4000 acres; build power transmission lines in various towns in upper border region of Texas to intersect with company's extensive transmission system near San Antonio.

Tex., Dilley—L. E. Myers Co., Allen Bldg., Dallas, reported has contract for 66,000 volt transmission line between Dilley and Ashton, via Big Wells; locate sub stations in Big Wells, Dilley and Ashton.

Tex., Fort Worth—Eugene Ashe Electric Co., 505 Jones St., low bidder on Magnolia Ave. and Pennsylvania Ave., project. 5-12

Tex., Fort Worth—City, C. A. Winder, Supervisor of Public Utilities, receives bids June 6 for lighting system on Main and Houston Sts.; cost \$70,000.

Tex., Henderson—City, reported, let contract to Fairbanks-Morse & Co., Chicago, Ill., for electric light plant; cost \$80,000.

Tex., Houston—City, Charles Kirk, Public Service Comr., reported, install ornamental street lighting system in Temple Terrace.

Tex., Kingsland—Syndicate Power Co., Dallas, subsidiary of Insull Interests, 72 W. Adams St., Chicago, Ill., Charles C. H. Alexander, Pres., applied to Federal Power Comm., Washington, D. C., for permission to construct dam and hydro-electric plant on Colorado River; company already has secured water power rights for series of 6 dams on Colorado River between Austin and Lampasas, with aggregate potentiality of an impounding of 2,567,600 acre ft. of water, development of total of 122,700 h.p.; construction of dam in Burnett and Llano Counties will be 165 ft. high, 2500 ft. in length, create 40,000 h.p. appropriate 1,200,000 acre ft. of water a year, store a minimum of 831,020 acre ft. and create lake 34 miles long. 5-13, 1926

Tex., Wichita Falls—Texas Electric Service Co., John W. Carpenter, V.-P., reported, construct 150 miles of high tension electric power transmission line in West Texas; 132,000 volts and 60,000 volts.

Tex., Wichita Falls—Texas Electric Service Co., John W. Carpenter, V.-P., reported, has plans by Voeleker & Dixon, Kahn Bldg., Archts., for warehouse and constructing headquarters building on Chester St.; brick, 70x140 ft.; fireproof; cost \$30,000; construction to begin in about 30 days.

Va., Danville—City votes June 10 on sale of gas and electric light plants to Appalachian Electric Power Co., Bluefield, W. Va.

Va., Irvington—Chicago Utilities Corp., reported, erect building for 240 h.p. Fairbanks-Morse oil engine supply lower Lancaster County with electricity, also operate ice plant.

West Virginia—New-Kanawha Power Co., Carbide and Carbon Bldg., 30 E. Forty-second St., New York, L. H. Davis, V.-P., advises: "Company has filed application with Federal Power Comm., Washington, for preliminary permit for water power development at 3 sites on Kanawha River and declaration of intention to develop water power on New River between Hawks Nest and Gauley Junction." Three developments together will have initial installation of 25,000 h.p., with ultimate installed capacity of 50,000 h.p.; dams will be located between Charleston and Montgomery; Montgomery and Deepwater. 5-19

Flour, Feed and Meal Mills

Ala., Birmingham—Earl Cline, 1011 N. 16th St., reported, has general contract for flour mill for Plosser-Knecht Flour & Grain Co., 1500 Avenue B; brick, 1 and 4 stories, mill

if the Manufacturers Record is mentioned.

construction, 127x25 ft.; C. H. McCauley, Archt., 708 Jackson Bldg. 2-10

Tenn., Dyersburg—Monroe Milling Co., reported, remodel recently acquired flour mill of Forked Deer Milling Co.; install corn mill and other machinery.

Tenn., Johnson City—C. L. DeBord, Rural Retreat, Va., and associates, reported, constructing flour mill; daily capacity 200 bbls.; cost \$60,000.

Foundry and Machine Plants

Tex., Dallas—Gin Machinery—The John E. Mitchell Co., 600 S. Sixth St., St. Louis, Mo., purchased site, plans erecting plant to manufacture gin machinery, cost about \$250,000.

Va., Hampton Roads—Hampton Roads Motors, Inc., 418-19 Dickson Bldg., Norfolk, being organized under laws of State of Virginia, capital \$500,000; to take over franchise and privilege of exclusive sales and manufacturing rights under patents granted Capt. C. S. Clark for air cooled motor; established plant, contemplate employing about 750 to 1000 persons; A. Johnston Ackiss, Pres.; John Upton, Treas.; Robert J. Walker, Sec. 4-17.

Gas and Oil Enterprises

Arkansas—Hambleton & Co., Baltimore, Md.; Thompson Ross & Co., Chicago, Ill., offering \$2,250,000 first lien 6% sinking fund gold bonds, Series A (with stock purchase warrants) of Southern United Gas Co., a New Jersey corporation; company will acquire 99% of capital stock of Industrial Oil and Gas Co., and all capital stock (except directors qualifying shares) of Twin City Pipe Co., both Arkansas corporations; these 2 companies, operating as unit, furnish natural gas to industrial consumers in Fort Smith and Van Buren, Ark., and to Fort Smith, Light and Traction Co., which supplies domestic consumers in Fort Smith.

Fla., Sarasota—John A. Reed, Cedar Rapids, Iowa, reported, extend gas into Manatee and Sarasota from Bradenton plant.

Fla., St. Petersburg—Floral Oil Co., incorporated; E. C. Watson, E. C. Metzner.

Ga., Waycross—Consumers Gas and Coke Co., E. W. Combs, Mgr., reported, is expending \$11,000 for improvements including steel storage tank, bench, artesian well and gas mains; increase capacity 25%.

Ky., Murray—Jackson Purchase Oil Co., capital \$10,000, incorporated; C. E. Luter, T. O. Baucum, L. M. Luter.

La., Lafayette—Prudhomme Oil Co., Inc., capital \$30,000, incorporated; A. U. Prudhomme, J. Omer Herbert, W. Koy.

Miss., Laurel—F. S. Mordaunt, V.-Pres. and Gen. Mgr., Southern States Utilities Co. La., advises: "Mississippi Gas and Coke Co. of La., Union Indemnity Bldg., New Orleans, has been organized under laws of State of Mississippi and has broken ground and started work of building \$500,000 gas plant at Laurel; procured franchise and supervising construction. Albert Garrett Construction Co., Canal-Commercial Bldg., New Orleans, La., contractors for all buildings, brick and otherwise, of Laurel gas plant; equipment not yet, but probably to Western Gas Construction Co., Ft. Wayne, Ind., or Parker Russell Mining & Mfg. Co., 3300 Morganfield Rd.; Albert Garrett, Archt.; my own staff of engineers; number miles mains approximately 30; extension to Ellisville, 7 miles; products manufactured artificial gas and coke; financed by Frederick L. Wilk Co., 39 S. La Salle St., Chicago, Ill."

Mo., Kansas City—Citizens Industrial Gas Co., reported, applied for franchise.

Mo., St. Louis—Utilities Power and Light Corp., 327 S. La Salle St., Chicago, Ill., reported, acquired stock control of Laclede Gas Co.

N. C., Durham—Henderson and Oxford Gas Co., incorporated; F. Stanley Saunman, Frank S. Muzey, both Land Title Bldg., Philadelphia, Pa.; Jones Fuller, 412 E. Main St., Durham.

N. C., Elizabeth City—Southern Gas Improvement Co., Z. C. Waggoner, Resident Mgr., reported, install compressor, compressor tank and boller, cost \$15,000.

Okla., Sapulpa—Western Union Petroleum Co., capital \$10,000, incorporated; J. A. Murphy, 618 W. Fifth St., Tulsa; B. C. Burnett and C. H. Hartman, both Sapulpa.

Okla., Tulsa—Texport Oil Co., capital \$100,000, incorporated; Hargis Walker, E. C. Klima, R. W. Kelliough, Kennedy Bldg.

Okla., Tulsa—Atlas Royalties Co., Clinton Bldg., increased capital, \$100,000 to \$600,000.

Okla., Tulsa—White Oak Refining Co., 617 World Bldg., is remodeling refinery and building pipe line; all materials purchased and all contracts let. 5-19

Tenn., St. Elmo, P. O. Chattanooga—Fowler Lewis Oil Refining Co., 5415 Beulah Ave., St. Elmo, will reclaim waste oil into high-grade motor oil by special process; install equipment at St. Elmo plant and accumulating stations in various Southern cities; date of opening bids not decided. 5-19

Texas—Continental Pipe Line Co., E. O. Sturm, V.-P., Wichita Falls, advises: "Laying approximately 50 miles of 4-in. pipe line from Wichita Falls to Nocona Field; all work being done by company's forces, with exception of ditching, which is being done by Meadow & Whitaker of Burk Burnett; pipe is on hand with exception of 23 miles, which has been purchased from Continental Supply Co.; equipment and other supplies have been provided for." 4-17

Texas—C. L. Bullock, Vice-Pres., Larutan Gas Co., Wichita, Kan.; T. A. Sanders, Amarillo, and Ben H. Ashe, Tulsa Trust Bldg., Tulsa, Okla., reported, applied for gas franchise; have 14,000 acres gas land; supply South Plains towns and cities with natural gas.

Tex., Amarillo—Phillips Petroleum Co., Amarillo Bldg., reported, construct natural gasoline plant south of Canadian River; will be known as Sanford plant; will run approximately 40,000,000 cu. ft. of gas daily and recover about 30,000 gals. natural gasoline daily.

Tex., Amarillo—Lefors Petroleum Co., capital \$100,000, incorporated; Dr. A. W. Coffield, J. M. Shaw, George M. Clardy.

Tex., Amarillo—Lefors Petroleum Co., capital \$100,000, incorporated; Dr. A. W. Coffield, J. M. Shaw, 402 Polk St.

Tex., Anna—Community Natural Gas Co., 1915 Wood St., Dallas, reported, new line.

Texas—Booth & Flinn, Ltd., Pittsburgh, Pa., advise: "Have been awarded contract for 4 sections of Empire Companies 250-mile pipe line from Amarillo to Wichita, Kan.; will complete entire line which is a 20-in. plain end; will employ no sub-contractors for construction work as we will do all the work ourselves; Empire Companies will furnish all pipe and materials and we have all equipment, etc., available to complete this line." 5-5

Tex., Dallas—Wild Rose Oil Co., capital \$22,000, incorporated; P. B. Mahoney, 5111 Vickery Blvd.; J. H. Shelton, 2311 Main St.; Dr. F. E. Ormaby, Mercantile Bank Bldg.

Tex., Dallas—Gas Protective Co. incorporated; R. A. Morris, Athletic Bldg.; N. R. McElroy, L. B. Martin.

Tex., Dallas—Union Trust Co., Pittsburgh, Pa.; Guaranty Co. of New York offering \$15,000,000 fifteen year 5% sinking fund debenture gold bonds of Lone Star Gas Corp.; company does entire gas business in Dallas, Fort Worth and 79 other cities and towns in Texas and several in Oklahoma; has under construction extensions to distribution system; company owns 1700 miles of main transmission and field lines, 19 compressor stations and 6 gasoline recovery plants; proceeds will be used to provide funds for payment of indebtedness incurred by company in its purchase of entire capital of Dallas Gas Corp. and for acquisition of additional distributing or marketing properties, extensions to present properties and for other corporate purposes. 5-19

Tex., El Paso—Western States Oil Co., capital \$120,000, incorporated; L. E. Lockhart, John C. Roseborough, Jr., 4109 Clifton St.; J. E. Benton, 3515 Tularosa St.

Tex., Fort Worth—Fort Worth Gas Co., reported, extend natural gas to Homeland Addition.

Tex., Houston—City, O. F. Holcombe, Mayor, reported, considering granting 10 yr. gas franchise to Houston Natural Gas Co.

Tex., Houston—Merger is reported of several gas companies in Texas and Oklahoma, with estimated annual consumption of 8,000,000,000 cu. ft. into Southwest Gas Co.; will offer \$3,000,000 first mortgage 6 1/2% sinking fund gold bonds, with stock purchase warrant by Edmund Seymour & Co., Inc., New York; Faxon Gade & Co., Boston, and Glidden, Morris & Co., New York.

Tex., McCamey—Transcontinental Oil Co. and Mid-Kansas Oil & Gas Co., reported, let contract to Illinois Pipe Line Co., Findlay, Ohio, for 27 miles of 8-in. pipe line in Pecos County.

Tex., Nacogdoches—Sell Oil Corp., Inc., capital \$50,000, incorporated; Dr. V. E. J. Lambau, Bloomington, Ill.; J. P. Stein and C. P. Lewis, Nacogdoches.

Tex., San Angelo—Barney Carter, Ranger, has franchise; reported, pipe gas 70 miles from north Coleman County, actual production 30,000,000 cu. ft. gas daily; line will supply Winters, Rowena and Miles; will have capacity of 7,000,000 cu. ft.; has acquired San Angelo Gas Co.'s properties.

Tex., San Antonio—Colletto Oil Co., capital \$15,000, incorporated; Edward Raymond, 728 E. Houston St., E. B. Carruth, 302 Belknap Place, E. B. Carruth, Jr., 202 W. Courtland St.

Tex., Slaton—West Texas Public Service Corp., A. J. McMahan, Oklahoma City, Okla., reported, granted franchise to construct natural gas line to Slaton from Panhandle gas fields; work to begin June 1.

Tex., Sour Lake—Texas Co., 720 San Jacinto St., Houston, reported making improvements to crude oil pumping station; install two 150 h.p. pumps with daily pumping capacity 1200 h.p.

West Virginia—Union Carbide and Carbon Co., 30 E. Forty-second St., New York, reported, construct \$2,000,000 chemical plant on Blaines Island; may also develop residential section for employees.

W. Va., South Charleston (Branch of Charleston)—Carbon and Carbide Chemical Corp., Stop 6, reported, applied for permit to construct pump house and intake pipe on Kanawha River.

Ice and Cold-Storage Plants

Fla., Haines City—Haines City Cold Storage Co., capital \$150,000, incorporated; Mart Sample, F. A. Sawall, H. J. Howitz.

Fla., McIntosh—McIntosh Utilities Co. installing York 8x8 high speed ammonia compressor, doubling capacity ice plant.

La., Vinton—J. C. Campbell, San Antonio, Tex., reported, plans erecting \$40,000 cold storage plant.

La., West Monroe, Br. of Monroe—West Monroe Ice and Storage Co., Inc., capital \$25,000, chartered; Wm. W. Johnson, Pres.; J. M. Bready, Sec.

Miss., Charleston—Charleston Ice & Coal Co., B. B. Brannon, Pres., W. Main St., has completed plant, 35x61 ft., corrugated iron; equipment and machinery furnished by Frick Co., Waynesboro, Pa., and Fairbanks-Morse Co., 900 S. Wabash Ave., Chicago, Ill. 5-12

S. C., Greenwold—Georgia-Carolina Ice Co., reported, acquired Clinkscales Ice plants at Greenwood and McCormick; will increase capacity; M. B. Clinkscales to remain in charge.

Tenn., Lawrenceburg—E. E. Tidwell and W. P. Courtwright, reported, acquired packing plant of Simon & Sebastian of Nashville; remodel, install refrigeration system, ice machines, etc.

Tex., Big Spring—Winn Produce Co. plans erecting cold storage plant cor. First and Gregg Sts.

Tex., Junction—Borden Ice Co., capital \$15,000, incorporated; E. R. Borden, L. D. Borden, Sr.; L. D. Borden, Jr.

Va., Irvington—See Electric Light and Power.

Va., Richmond—East Coast Utilities Co., Wm. S. Stevens, Pres., Chicago, Ill., reported, acquired cold storage and ice manufacturing plants on Hermitage Rd. (formerly occupied by Rosenek Brewery); building contains about 250,000 sq. ft. cold storage space and like amount for dry storage, with daily capacity 50 tons ice; probably increase output; also reported to purchase other Virginia plants.

Iron and Steel Plants

Miss., Jackson—R. N. Brown, Winston-Salem, N. C., reported, plans erecting \$30,000 fabricating steel plant.

Land Development

Ala., Jonesboro—Bessemer Coal, Iron and Land Co., Bessemer, reported, develop 80-acre subdivision.

Fla., Daytona Beach—Reynolds & Jaquay, Inc., capital \$10,000, chartered; A. T. Reynolds, 147 Magnolia Ave.; B. A. Reynolds.

Fla., Daytona Beach—Security Farms Co., incorporated; J. C. Toy, H. E. Black, 134½ Wild Ave.

Fla., Fort Lauderdale—Oxford Corp., capital \$10,000, incorporated; Joseph E. Packer, John E. Morris.

Fla., Jacksonville—Southeastern Chemical Co., incorporated; R. T. Carlisle, P. G. Jefferson.

Fla., Jacksonville—Spicer Land Corp., in-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

corporated; Ed Spicer, William Spicer, Georgia Baker.

Fla., Lake Wales—Citrus Florida Co., incorporated; Kenneth Curtis, Augustus D. Curtis.

Fla., Latana—Latana Holding Co., Inc., capital \$10,000, chartered; Morey Dunn, William Sherrill.

Fla., Miami—Gratigny Heights, Inc., chartered; H. F. Ward, 1311 Alhambra Circle; Carrie E. Benner.

Fla., Miami—Mandalay Beaches, Inc., chartered; H. G. Jones, Greater Miami Bldg.; T. E. Kelly.

Fla., Miami—T. L. F. Co. incorporated; Edgar R. Mattingly, John E. Kelly.

Fla., Miami—Alexander Realty Co. increased capital, \$5000 to \$40,000.

Fla., Miami—Lavalon Shores, incorporated; P. L. Wilson, Meyer-Kiser Bldg.; H. H. Taylor, 350 E. Sixth St.

Fla., Miami—Palais Royal Park, Inc., chartered; H. A. Burmeister, Louis Wolfson, 239 N. E. 14th Ter.

Fla., Miami—Slocum Co. incorporated; Lucy DeVane Batchelor, O. D. Batchelor, Olympia Bldg.

Fla., Miami—M. Ponce Co. incorporated; M. Ponce, 1912 N. Miami Ave.; Maria Ponce.

Fla., Miami Beach—Gulf Stream Park Co. incorporated; M. L. Titgen, E. Cruce.

Fla., Miami Beach—Reggner Corp. incorporated; Geo. A. Reggner, Thos. W. Phillips, Realty Board Bldg.

Fla., Ocala—Silver Springs Holding Co., incorporated; C. C. Jamieson, Edward P. Johnson.

Fla., St. Petersburg—Equity Holdings, Inc., chartered; Lew. B. Brown, E-166 Sixth Ave. N.; L. C. Brown, 2200 N. Shore Drive.

Fla., St. Petersburg—DeWolf Holding Corp., capital \$50,000, incorporated; Sidney H. DeWolf, Thomas M. Mayer.

Fla., Tampa—Ideal Realty Corp. incorporated; A. W. Cornick, Fred E. Franklin, 515 Bay St.

Fla., Tampa—G. A. M. Realty Co. incorporated; G. A. McLeod, 305 Cass St.; H. E. McLeod.

Fla., Tampa—Pullaro-Karran Co., Inc., capital \$15,000, chartered; Carmel O. Pullar, George V. Harran.

Fla., Vero Beach—Barber Development Co. incorporated; I. J. Graham, A. M. Hill.

Fla., West Palm Beach—Fagan Arcade, Inc., chartered; W. D. Fagan, W. D. Fagan, Jr., Belvedere Road.

Fla., West Palm Beach—Belvedere Park, Inc., chartered; W. D. Fagan, W. D. Fagan, Jr., Belvedere Road.

Fla., Winter Haven—Winter Lakes Corp. incorporated; C. S. Borders, B. F. Bowers.

Fla., Gainesville—City Commrs., reported, plan developing 50 acres adjoining Alta Vista Cemetery for addition; construct driveways, ornamental entrances.

La., Lafayette—Gulf States Park Builders, Inc., capital \$50,000, incorporated; Leslie E. White, Joseph Vallet, Jr.

La., New Orleans—Alice Realty Co., capital \$25,000, incorporated; Walter Reboul, 1204 N. Rampart St.; Alice F. Reboul.

La., New Orleans—Burguières, Chipley & Williams, capital \$100,000, incorporated; L. Kemper Williams, Patterson; Buckner Chipley, 579 Broadway, New Orleans.

La., New Orleans—St. Tammany Land Co., Inc., capital \$15,000, chartered; Jacques Mossler, 1319 Canal St.; Milton Nelson, 2331 Nashville Avenue.

Md., Baltimore—Real Estate Trust Co., Foster T. Fenton, Charles and Chase Sts., plans expending \$60,000 to \$75,000 for converting Glendale on Poplar Hill Road into suburban community; plans by Thomas W. Sears, Landscape Archt., 1600 Walnut Street, Philadelphia, Pa.; Lawrence Hall Fowler, Sup. Archt., 37 N. Charles St.; will install water, sewer, gas, roads.

Md., Baltimore—United States Realty Corp., incorporated; George W. King, 40 S. Paia St.; T. O. Hammond, J. McD. White, 4 Stoneleigh Rd.

Mo., Harrisonville—Morrow Investment Co., 424 Rialto Bldg., Kansas City, reported, develop 80 acre subdivision.

Mo., Kansas City—Huran Realty Co., Inc., incorporated; W. H. Norton, 5840 Oak St.; J. F. Grampp, F. D. Soule, 1320 W. 50th St. Terrace.

Mo., Kansas City—George N. Neff, 1505 Genese St., will expend \$25,000 in improvements to 290 acres; Flke & Newell, Archt. and Constr. Engr.

In writing to parties mentioned in this department it will be of advantage to all concerned

Manufacturers Record

Mo., Kansas City—Emil J. Schutzel Real Estate Co., 3502 Frost St., capital \$30,000, incorporated; Emil J. Schutzel, C. L. Hard- ing, 404 N. Gladstone Blvd.

Mo., St. Louis—Alberta Realty Co., capital \$20,000, incorporated; E. Fishgall, Arcade Bldg.; M. Orenstein, 626 Eastgate St.

N. C., Elizabethtown—National Land Exchange, Inc., capital \$100,000, chartered; Dr. G. F. Bullard, S. G. Bullard.

New Orleans—Sierra Realty, Inc., chartered; Felice V. Sierra, 630 Commercial Pl.; H. G. Hollander.

N. C., Hamlet—Stanley Realty Corp., capital \$25,000, incorporated; S. H. Kahn, Clara L. Kahn, T. S. Kahn.

N. C., Wilmington—E. S. Smith, Raeford, reported, develop resort at Fort Caswell; construct ocean speedway, boardwalk, white way, golf course.

Okla., Miami—Wea Townsite Corp., capital \$100,000, incorporated; James F. Robin- son, George Coleman, Charles H. Meshew.

S. C., Aiken—Aiken Realty Co. increased capital, \$100,000 to \$200,000.

S. C., Aiken—Okay Club, John K. Hollins, East Islip, N. Y.; and Harry S. Taintor, New York, reported acquired 666 acres in Mossey section.

S. C., Columbia—Davis Powell, Pres., Mel- rose Heights Development Co., reported, de- velop Fairview, subdivision.

S. C., Columbia—Mrs. Carolina J. Ramsey, New York, reported, acquired 3000 acres.

Tenn., Nashville—Washington Realty Co. increased capital \$125,000 to \$250,000.

S. C., Columbia—Joel A. Sligh, reported, acquired Laurel Court, 10 acres, will develop subdivision; install water, sewers, gas.

Tenn., Chattanooga—Stockholders of Signal Mountain Pallisades, 724 Cherry St., re- ported, considering increasing acreage of holdings including acquiring water works system serving Signal Mountains and for 2600 acres from Webster James interests; increased capital \$250,000 to \$450,000.

Tex., El Paso—South Pyote Townsite Co., incorporated; Thomas M. Mayfield, 717 N. Yandell St.; J. D. Mayfield, 3116 Montana St.; W. O. Beltz, 4104 Cambridge St.

Tex., Houston—Harry E. Weaver, Esper- son Bldg., reported, acquired 56 acres on Buffalo Bayou.

Tex., San Antonio—Main Plaza Co., capital \$12,000, incorporated; E. B. Carruthers, Rich- ard V. W. Negley, W. E. Negley.

Va., Falls Church—Ruby Lee Minar, 1405 New York Ave. N. W., Washington, D. C., reported, develop 100 acres for home sites.

Va., Norfolk—Otto Wells, Dickson Bldg., reported, interested in development of 150 acres of land for golf course, etc.

Va., Norfolk—Cavalier Park Corp., incor- porated; J. W. Farrell, 1522 Westover Ave., Petersburg; George T. Drumright, 218 West- minister Ave.; Hugh W. Davis, Bank of Commerce Bldg., both Norfolk.

Lumber Enterprises

Fla., Jacksonville—Nassau Lumber and Timber Co. Inc., chartered; Y. O. Brown, M. S. Pollak, 949 May St.; R. A. Hubler, Bisbee Bldg.

La., Marrero—Mayronne Lumber & Supply Co., Inc., capital \$30,000, incorporated; R. W. Mayronne, O. H. Mayronne, both Marrero.

Miss., Meridian—Elliot Cobb Lumber Co., Inc., chartered; Elliot Cobb, M.-W. Bldg.; Mrs. Willie Dixon Cobb, H. E. Kelly.

Miss., Vicksburg—Oak Ridge Lumber Co., capital \$10,000, incorporated; C. H. Ricketts, Walters, W. S. Cooper, Sr.

Mo., Kansas City—Caddo River Lumber Co. offering \$800,000 5 1/2% serial gold notes through Fidelity National Co.; note being issued to liquidate liabilities incurred in connection with capital expenditures already made for additional working capital and for other corporate purposes.

Tenn., Memphis—Yazoo Hardwood Lumber Co., capital \$30,000, incorporated; Herman Katz, Joe Thompson, M. H. Walsh.

Metal-Working Plants

Tenn., Memphis—J. C. Barker has permit for Tennessee Metal Manufacturing Co., 1-story, steel and concrete building, 339 Olive St., estimated cost \$10,000.

Mining

Ky., Frankfort—Blanton Stone Co., increased capital, \$50,000 to \$60,000.

N. C., Glendon—United Tale and Crayon Co., Inc., A. L. Luff, Pres., installing machinery for grinding tale to very fine mesh suitable for rubber, textile, paper trades, etc.; high side roller mill with air separation made by Raymond Bros. Impact Pulverizer Co., 1315 N. Branch St., Chicago, Ill. 2-17

S. Carolina—Southern Silica Milling and Manufacturing Co., John G. Ehrlich, Pres., 1226 Sumter St., Columbia, S. C., reported, increased capacity of pits located in Lexington County.

Tex., Cleveland—Lone Star Gravel Co., 304 Post Dispatch Bldg., Houston, has 400 acres gravel deposits under development, daily output about 1000 cu. yds.; equipment all purchased. 5-19

Miscellaneous Construction

Ala., Mobile—Rockwood Sprinkler Co., Audubon Bl., New Orleans, La., has contract at \$17,400 for installing sprinkler system for Pier No. 1, transit shed at State Docks; Gen. Wm. L. Sibert, Prest. and Ch. Engr., Docks Comsn.

Ark., Little Rock—Fence, etc.—Big Lake Club, Julius Mons. Sec.-Treas., 4000 W. 14th St., constructing 10 miles fence around lake and construct dam to increase depth of lake about 2 ft. to protect fish and game reservation.

Fla., Kissimmee—Bulkhead—James Davis and George Steffee have contract for bulkheading property of the Hunter Interests, from Penfield Ave. south to McLaren Ave. and from city limits south to the city ditch; F. H. Jenkins, representing Hunter Interests, in charge

Fla., Miami Beach—Swimming Pool—Miami Beach Bay Shore Co., Irving A. Collins, V.-Pres., 846 Lincoln Rd., reported, construct \$8000 private swimming pool, 84x24 ft., shower baths, etc., 5011 Pine Tree Drive; also plans new residence.

Ga., Fort Gaines—Swimming Pool—Grimesley and Lokey, reported, build swimming pool near Chattahoochee River, also plan park, recreation club, etc.

Mo., Fulton—Dikes, etc.—Major C. C. Gee, U. S. Dist. Engineer, Kansas City, Mo., let contracts to following for work on retards and dikes along Mississippi River, Callaway County: Woods Bros. Construction Co., Lincoln, Neb.; Kansas City Bridge Co., Oread-Leslie Bldg.; H. J. Massman Construction Co., American Bank Bldg., and List & Weatherly Construction Co., R. R. Exchange Bldg., all Kansas City. 5-19

N. C., Asheville—Tunnel—Jno. H. Ca- they, Mayor, wires: "Clement-Dunavant Co., Commercial Bank Bldg., Charlotte, awarded contract for Beaucatcher tunnel, 850-ft. long, 30 ft. wide, 2 sidewalks; \$302,000." 5-5

Tenn., Nashville—Swimming Pool—Kiwanis Club is constructing memorial wading pool at Morgan Park; 40x90 ft.; Foster & Creighton, Contrs., Bennie-Dillon Bldg.; Tisdale & Stone, Archts. Independent Bldg.

Tex., Beaumont—Swimming Pool—City received low bid from Herman Weber, Com- press Bldg., at \$14,685 for swimming pool in Bailey Park.

Tex., Galveston—Intracoastal Canal Assn. of Louisiana and Texas, Roy Miller, active Pres., Second Nat. Bank Bldg., Houston, will advance approximately \$70,000 for survey of proposed route of canal from Galveston to Corpus Christi.

Tex., Galveston—Slips—Galveston Wharf Co., E. M. Gossrau, Owner and Mgr., 2324 Avenue B, reported, contemplates building slips at piers 19 and 20 for accommodation motor boats.

Tex., Houston—Major B. C. Allin, Port Director, reported, let contract to Don Hall, Cotton Exchange Bldg., Houston, at \$35,800 for 175-ft. extension to city dock No. 1. 5-5

Va., Virginia Beach—Town voted \$250,000 bonds for seawall promenade; R. B. Taylor, Clerk. See Financial News—Bond Issues Pro- posed.

Miscellaneous Enterprises

Ala., Bessemer—B. E. Ingram of Ingram & Fitzgerald, writes following in reference to Bessemer Holding Co.: "We beg to advise that this was incorporated for express purpose of taking over Bessemer Hunting and Fishing Reservation that had gone by default. We are not contemplating doing any thing or making any improvements whatsoever."

Ala., Birmingham—Newell Contracting Co., Inc., A. F. Newell, Pres., Martin Bldg., reported, acquired 13 1/2 acre site Fifth Ave., Mary Lee extension, established plant, in-

if the Manufacturers Record is mentioned.

stall machinery for asphalt heating and cement mixing plants, warehouses, etc.; cost \$200,000.

Ala., Decatur—Twin City Bread Co. Inc., capital \$125,000, chartered; E. W. Strother, J. F. Smithers; taken over operations of Twin City Bread Co.

Ala., Florence—W. S. Mudd, W. H. Moody and M. J. Goodwin, owners and publishers of Gadsden Times, reported, acquired Florence Daily News-Times; will publish.

Ark., El Dorado—Wood Bros. Music Co., capital \$10,000, incorporated; Horace A. Wood, E. Nowlin, J. A. Carr.

Ark., Fort Smith—C. H. Wertz, Pres. Ft. Smith Biscuit Co., 201 S. Fifth St., interested in organizing \$150,000 company to manufacture cake and bread, and absorb Edmondson plant; plans erecting brick building on S. Fifth St.; install modern machinery; loading dock and shed connect distribution and loading departments; The C. J. Patterson Corp., 4050 Penn St., Kansas City, Mo., Gen. Contrs.

Fla., Fort Myers—General Manufacturing—Florida Fibre Assn., Inc., capital \$125,000, chartered; H. E. Ellis, E. S. Kepler, J. A. Corn.

Fla., Jacksonville—Paints—Glidden Co. of Florida incorporated; R. H. Horsburgh, F. W. Power, Clifton M. Kobl.

Fla., Jacksonville—A. F. Perry, 1202 Riverside Ave., has permit for bottling plant, 2404 Market St.; 1-story, concrete block, cost \$15,000, for Mavis Chocolate Co.

Fla., Jacksonville—Rubin Iron Works, Inc., capital \$150,000, chartered; J. L. Stevens, 432 W. 22nd St.; Oscar Rubin, 31 W. 19th St.

Fla., Jacksonville—Amusements—Hiawatha Co., capital \$10,000, incorporated; J. S. Diver, Barnett Bldg.; J. F. Clemens, H. E. Ulmer, Graham Bldg.

Fla., Jacksonville—Hendersonville Hotel Corp. chartered; H. C. Crawford, Jr.; S. S. Spencer, Robert Bartlett.

Fla., Kelsey City—Kelsey City Livestock Co., incorporated; A. D. Knowles, H. S. Kelsey.

Fla., Kissimmee—Kissimmee Peanut Co., capital \$10,000, incorporated; S. I. Smith, A. J. Conrad, Elizabeth Pullen.

Fla., Lakeland—Lakeland Battery Manufacturing Co., capital \$50,000, incorporated; C. M. Foreman, 705 E. Park St.; H. S. Foreman, 505 W. Peachtree St.; R. G. Cameron.

Fla., Miami—Miami Baking Co., 636 N. W. 24th St., capital \$125,000, incorporated; G. A. Selige, Dr. Adolph Selig, Dr. Bertha Seig.

Fla., Miami—Merchandise—Kurman Brothers Corp., capital \$20,000, chartered; Moses Kurman, Abe Kurman, Isaac Kurman.

Fla., Miami—Building Materials—Miami Mill Co., capital \$50,000, incorporated; Frank Clark, Jr., Seybold Bldg.; D. H. Johnson, Jr., W. F. Ray.

Fla., Miami Beach—Turney's Laboratories, Inc., chartered; Eugene T. Turney, Robert H. Gamble, 105 N. E. Second Ave.; Morrison B. Orr, 1833 Washington Ave.

Fla., Okeechobee—Bass Lumber and Supply Co., capital \$50,000, incorporated; M. T. Bass, Jr., Henry T. Bass, Sr., Edith T. Hensley.

Fla., Orlando—Saniford Basket Co., capital \$50,000, incorporated; E. E. Sutherland, Thomas M. Howell, 17 N. Bryan St.

Fla., Plant City—Board of Public Works, A. Schneider, Chrmn., let contract to Gamewell Fire Alarm Telegraph Co. Newton Upper Falls, Mass., for fire alarm system; 20 boxes and control station with latest improved type switchboard. 4-21.

Fla., St. Petersburg—Drugs and Chemicals—Ruco Sales Corp. of Florida, capital \$10,000, chartered; O. A. Sapper, F. M. Bunker, S. C. Rice, E-345 21st Ave. N.

Fla., Sanford—Spencer's Dairy, Inc., chartered; C. E. Spencer, George C. Harden, G. W. Spencer.

Fla., Sarasota—Brossard Jewelry Co., capital \$15,000, incorporated; E. C. Brossard, Edwards Theater Bldg.; Roberta H. Brossard.

Fla., Tampa—Poinsettia Ice Cream Co., capital \$120,000, incorporated; W. J. Barriett, 2004 Florida Ave.; Clyde Perry, 823 S. Orleans St.; W. J. Barriett, Jr.

Fla., Tampa—Vending Machines—Mechanical Merchandising Machines, Inc., capital \$500,000, chartered; J. C. Vinson, 4609 Bayshore Blvd.; L. V. Singletary, J. R. Hudson.

Fla., Atlanta—Columbus Roberts, Pres. Coca-Cola Bottling Co., 12 St and Sixth Ave., Columbus, Ga., reported, purchased pasteurizing plant and delivery equipment of Georgia

Dairies, Inc. at 198 S. Forsyth St., will remodel to handle 400 gal. milk daily (from Jersey dairy farm at Ben Hill); to be known as Georgia Dairy Co.

Ga., Augusta—Sweet Potatoes, etc.—Castleberry's Products Co., 1621 15th St., reported, let contract to Schwerner & Anderson, 646 Reynolds St., for erection manufacturing plant, 35x125 ft., concrete, sash ventilation; capacity 18,000 cans daily of Castleberry's hash, sweet potatoes, etc.; Clem Castleberry, Jr., in charge of operation.

Ga., Fitzgerald—Southern Tobacco Co., H. L. Hull, Pres., 1123 Peachtree St., reported, acquired and will operate redrying plant of the Fitzgerald Development Co. 4-7

Ga., Macon—Contracting—A. L. Patterson Co., capital \$75,000, incorporated; A. L. Patterson, Caroline Patterson, 147 High St., both Macon; H. Naylor, Kansas City, Mo.

Ga., Macon—B. J. Hamilton, of Peninsular Tent and Awning Co., 326 E. Eighth St., Jacksonville, Fla., reported, plans establishing \$20,000 plant, to be known as Central Georgia Awning, Tent and Shade Co.; J. P. Carney, plant Supt.

Ga., Savannah—Craft Color Studios, Samuel C. Lawrence, Pres., 18 Kinzie Ave., reported, plans purchasing property on Wheaton St., remodel, install own dry kilns, wood working rooms, paint spray rooms, process screen department, etc., expending about \$50,000.

Ky., Hazard—Bluegrass Milk Co., capital \$80,000, incorporated; J. D. Smith, Curtis Lucas, W. C. Smith.

Ky., Lexington—Kentucky Bluegrass Seed Co., capital \$80,000, incorporated; W. B. Talbert, 215 N. Mill St.; S. M. Moore, W. B. Talbert, Jr., 450 W. Third St.

Ky., Henderson—Henderson Electrical Co., incorporated; P. C. Van Cleve, Mayme Van Cleve, Lottie Green.

Ky., Paducah—Jack Cole Clothing Co., capital \$10,000, incorporated; A. E. Cole, J. W. Cole, Gus A. Katterjohn, 1109 S. 11th St.

La., Lake Charles—Norman-Watson, Inc., 325 Lawrence St., chartered; Kenneth Watson, Pres., Lake Charles; Arthur W. Norman, Sec.-Treas., Lafayette; manufacture "Ni Hi" soft drink, etc.

La., New Orleans—New Orleans Hat Works, Inc., chartered; Joseph Muntz, Pres., Walter Melan, Sec.

La., New Orleans—Frigidrink Service Co., Inc., chartered; H. D. Robertson, 730 Whitney Bldg.; F. D. Blue, 405 Whitney Bldg.

La., New Orleans—Fire Fighting Equipment—Fire Board authorized purchase two 900 gal. pumper, cost about \$12,500 each, and about 5000 ft. hose. Address City Clerk.

La., New Orleans—Western Paper Makers Chemical Co., Kalamazoo, Mich., through subsidiary the Georgia-Louisiana Co., Atlanta, reported, purchased industrial acreage in both Atlanta and New Orleans, for building of plants; New Orleans site adjoins The Celco tex Co.'s plant in Ames Industrial section, at Marrero, west bank of river, acquired 10 acres took option on 15 additional; work to begin immediately, employ about 200 persons; estimated cost \$250,000; manufacture chemicals used in manufacture of paper, and serve paper mills in Louisiana, Mississippi, Texas and Pacific Coast.

La., New Orleans—Standard Laundry & Industries, capital \$250,000, incorporated; Guy L. Deano, 738 Perdido St.; N. Manniana, 1034 Louisiana Ave.; F. DiGeorge.

La., New Orleans—Hosiery—Roach & Reid, capital \$35,000, incorporated; Wilkins Roach, 2633 Palmer Ave.; James H. Reid, 1910 Broadway; J. F. Brechtel, 914 Pleasant St.

La., Shreveport—Model Cleaners & Dyers Co., Marshall St., reported, let contract to H. and B. Construction Co., Ricon-Brew Bldg., at \$20,435 for plant; reinforced concrete, steel and brick; Jones, Roessle, Olschner & Weiner, Archts., Ardis Bldg., Shreveport.

La., Shreveport—Tri-State Wholesale Paper Co., capital \$100,000, incorporated; Nathan Goldstein, 314 Stoner St.; P. W. Swarengren, 715 Wilkinson St.

Miss., Columbus—Commercial-Dispatch Publishing Co., increased capital, \$20,000 to \$100,000.

Miss., Greenwood—Jordan-Holmes Piano Co., capital \$10,000, incorporated; D. B. Holmes, E. E. Wilkins.

Miss., Jackson—Blue Ribbon Creamery Co., capital \$30,000, incorporated; H. C. Hanson, J. C. Matthews, Industrial Heights.

Miss., Meridian—Antiseptic Remedies Co., capital \$10,000, incorporated; G. R. Smith, 216 24th St.; W. H. Gibbons.

Miss., Natchez—Mississippi Fruit and

Packet Co., capital \$20,000, incorporated; H. C. Dawes, Jr., E. J. Mounger.

Miss., Natchez—Feltus Brothers Hardware Co., capital \$50,000, incorporated; A. M. Feltus, Franklin St.; Richard Feltus, Jr.

Mo., Clayton—Superior Enamel Products Co., Tenth and Mullanphy, erect \$10,000 factory, 140x90-ft., steel; Wm. H. and N. Cunliff, Builders; Manske Bartling, Archt., 410 N. Euclid St., Kansas City.

Mo., Kansas City—Sun Glint Polish Co., Pittsburgh, Pa., reported, leased 4-story building, 519 Wyandotte St.; establish western division of company.

Mo., Kansas City—Goss Printing Press Co., 1533 S. Paulina St., Chicago, Ill., has contract for \$800,000 printing presses for The Star. The Kansas City Star wires: "Purchased from Goss Co., 36 United presses, reel and electric control for them to be furnished by Cline Electric Manufacturing Co., 111 W. Washington St., Chicago. Sellers to make complete installation."

Mo., Kansas City—C. C. Clemons Produce Co., capital \$60,000, incorporated; Louis E. Olin, Sam Kind, James I. White, 5403 Frost St.

Mo., Kansas City—John Boehm, 28th and Cherry St. let contract to Lisheen Construction Co., 447 E. 55th St. for \$15,000 dye house, 2-story, 50x60-ft., brick and concrete.

N. C., Charlotte—Engineering, etc.—J. M. McMichael, capital \$100,000, incorporated; J. M. McMichael, 306 Park Ave.; G. L. McMichael, J. W. McMichael.

N. C., Charlotte—Mercantile—North Carolina Fifty-fifty Stores, Inc., capital \$30,000, chartered; A. Craig Flite, Dixie Rd.; L. S. Sloop, 831 E. Seventh St.; C. L. Green, 902 N Tryon St.

N. C., Crossnore—Carolina Mountain Hatchery, Inc., chartered; Thomas P. Dolling, C. R. Stroup, both Crossnore; E. G. Eller, Newland.

N. C., Durham—Construction—C. V. York Co., capital \$50,000, incorporated; C. V. York, Jr., Mable A. York, C. V. York, Sr.

N. C., Gastonia—Grocer's Baking Company, capital \$25,000, incorporated; W. J. Carroll, C. R. Carroll, J. H. Walters.

N. C., Greensboro—Atlantic Produce Co., capital \$50,000, incorporated; S. W. Morissette, 849 Piedmont Ave.; J. C. Morissette, both Winston-Salem; W. W. Clark, Greensboro.

N. C., High Point—Ideal Furniture Co., capital \$100,000, incorporated; J. L. Welborn, Jennie D. Welborn, A. L. Persons.

N. C., Mooresville—Shirts, etc.—Curry-Conrad Manufacturing Co., capital \$100,000, incorporated; A. Frank Burton, Geo. G. Curry, F. V. Conrad establish plant to manufacture shirts, pajamas, etc.

N. C., Saluda—Saluda Towel Co., Inc., G. R. Little, Pres., plans rebuilding plant, burned at loss of \$35,000.

N. C., Shelby—Whiteway Dry Cleaning Co., Louis Hamrick, Pres., reported, contemplates enlarging plant.

N. C., Southern Pines—Electrical Contracting—Gregory & Bushby, Inc., capital \$30,000, chartered; Joseph D. Gregory, W. S. Bushby, Elizabeth Alma Gregory.

N. C., Statesville—Grier-Lowrance Construction Co., H. P. Grier, Jr., reported, has contract for plant on Taylorsville Rd. for the Albrecht-Bristol Shoe Corp.; 54x170-ft., brick, steel sash; soon begin work. 5-12

Ola., Bristow—Groom Building Co., capital \$50,000, incorporated; C. D. Groom, Walter W. Groom, Joe A. Combs.

Ola., Guthrie—Guthrie Theater Co., capital \$10,000, incorporated; C. E. Momand, A. B. Momand, C. Mueller, Shawnee.

Ola., Henryetta—Clark-Darland Hardware Co., capital \$25,000, incorporated; L. C. Clark, O. F. Matthews, both Henryetta; U. V. Darland, Seminole.

Ola., Tulsa—The Art Printers, incorporated; C. A. Bohnenkamp, Frank C. Thompson, 911 E. Frost St.

Ola., Tulsa—Tulsa Rubber Products Co., capital \$25,000, incorporated; J. A. Frates, First Natl. Bank Bldg.; O. M. Sewell, 410 S. Frisco St.; R. A. Kleinschmidt.

S. C., Greenville—Southern Maytag Co. Inc., 112 W. McBee Ave., chartered; H. J. Southern, 1000 Pendleton St.; George B. Tracy, Lillie F. Tracy.

S. C., Orangeburg—Orangeburg Theatres, Inc., chartered; H. C. Wanamaker, Jr., J. B. Seignious.

Tenn., Kingsport—Blue Ridge Glass Corp. increased capital, \$3,000,000 to \$3,500,000.

Tenn., Kingsport—Kingsport Bakery, capital \$8000, incorporated; J. D. Draper, Newell R. Highsmith, Mabel G. Draper.

CONSTRUCTION DEPARTMENT

Tenn., Knoxville—Building Materials—Stone Tile and Supply Co., capital \$50,000, incorporated; W. J. Donaldson, Frank Montgomery, both Holston Natl. Bank; John J. Craig, Vestal St.

Tenn., Knoxville—Gray Knox Marble Co., reported, increased capital, \$1,500,000 to \$2,000,000; filed certificate at Dover, Del. 5-12.

Tenn., Memphis—Electric Refrigerators, etc.—Ray H. Boaz Co., Inc., capital \$25,000, chartered; Ray H. Boaz, H. K. Reese, A. W. Ketchum.

Tenn., Memphis—Nokol Heating Co., increased capital, \$10,000 to \$100,000.

Tenn., Mt. Pleasant—Ruhm Phosphate and Chemical Co., increased capital, \$75,000 to \$150,000.

Tenn., Memphis—Southern Surveying and Engineering Co., capital \$10,000, chartered; J. B. Evers, D. H. Grant, G. C. Dew, 1621 Nelson St.

Tenn., Memphis—Luke Lea, Publisher of Nashville Tennessean, Nashville, and associates, reported, acquired the Commercial Appeal and The Evening Appeal, exclusive of real estate. 5-19

Tenn., Nashville—Real Estate Title Co., capital \$100,000, incorporated; Andrew L. Todd, Homer Bean, Stahlman Bldg., Moore M. Miles.

Tenn., Paris—Paris Steam Laundry Co., capital \$35,000, incorporated; W. Harry Dudley, H. A. Dudley, E. T. Turner.

Tex., Amarillo—Harding Ranch Amusement Co., Jack Taggart, reported, expending about \$75,000 on improvements, converting Harding Ranch (located at head of Palo Duro Canyon) into amusement park; enlarging swimming pool, 400x75 yds., remodel bath houses; install amusement park concessions; building pavilions, dining rooms, cottages, etc.

Tex., Amarillo—Amarillo Piggly-Wiggly Co., capital \$100,000, incorporated; C. W. Furr, J. H. Florey, 1916 Harrison St.; W. N. Durham, 1601 Monroe St.

Tex., Austin—J. C. Bryant Creamery Co., 500 Colorado St., increased capital, \$10,000 to \$40,000.

Tex., Ballinger—Runnels Creamery Co., J. D. Motley, Owner, contemplates establishing \$12,000 creamery. 5-19

Tex., Beaumont—Brandt-Mist Bottling Co., capital \$10,000, incorporated; W. L. Walker, Ralph H. Kinsloe, 1960 Calder St., Hubert Oxford.

Tex., Brownsville—Acacia Irrigation Co., incorporated; Daniel Franklin, R. E. Holland, Roy C. Sethman.

Tex., Dallas—Bryon Jackson Pump Manufacturing Co. of Texas, incorporated; John B. Keating, E. L. Osborne, R. Schurman.

Tex., Dallas—Brook Mays, 1005 Elm St., reported, erect industrial building, 2 or 3-story, semi-fireproof; day labor; C. C. Bulger & Co., Archt., 207 Const. Ind. Bldg.; elevators installed by Elevator and Electric Service Co., 108 N. Market St.

Tex., Dallas—Plumbing Supplies, etc.—The Mueller Co., Decatur, Ill., purchased site and let contract to Bellows-Maclay Construction Co., 603 Const. Ind. Bldg., for 4-story warehouse building, concrete; use for Southwestern distributing branch to serve Texas, Oklahoma, Arkansas, Louisiana and New Mexico; Herbert M. Green, Archt., 805 Santa Fe Bldg.

Tex., Dallas—Manufacturing Stationers—Clarke & Courts, 2402 C St., Galveston, reported, purchased 50x100-ft. building, 1506 Young St., expend \$100,000 establishing stationery and office equipment supply house; also plans manufacturing plant.

Tex., Dallas—Publishing—The Messenger, incorporated; Mrs. John Woods, Magnolia Bldg.; Miss M. L. Smith, L. Dunlap.

Tex., Denton—Publishing—Record-Chronicle Co., capital \$50,000, incorporated; Wm. C. Edwards, R. J. Edwards, L. A. McDonald.

Tex., Edinburg—Edinburg Hotel Co., capital \$135,000, incorporated; C. D. Robb, P. M. Gordon, J. E. Mason.

Tex., Floydada—H. E. Cannaday has contract at \$15,000 for erection of building for City Bakery; 1-story, reinforced concrete, hollow tile; Peters & Haynes, Archts., 321 Temple Bldg., Lubbock.

Tex., Fort Worth—Amusement Devices—Miller & Mathas, Inc., chartered; Everett Mathas, Frances Mathas, John A. Miller, 207 W. Allen St.

Tex., Goose Creek—Tri-City Publishing Co., incorporated; C. R. Meyers, J. W. Hixon, James P. Weckersheimer.

Tex., Harlingen—Hygia Milk Products Co., incorporated; L. B. Martin, E. M. Holland, Dr. J. T. Traylor.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Manufacturers Record

Tex., Harlingen—Abattoir—See Sewer Construction.

Tex., Houston—Warehouse Sales Co., capital \$10,000, incorporated; H. E. Tomlinson, 2022 W. Main St.; F. R. Breaux, Second Nat. Bank Bldg.; A. J. Delange.

Tex., Houston—Distilled Water Co., incorporated; William Oggero, 4301 Bell St.; C. Schiro, Andrew Schiro.

Tex., Houston—Auditorium Hotel Co., 700 Louisiana St., capital \$75,000, incorporated; Dupree Fountain, O. R. Seagraves, Warwick Hotel Apts., Edna Hanna.

Tex., Houston—Producers Creamery, Inc., 2728 Washington Ave., has plant, installing pasteurizers, bottle filler and washers, etc. See Wants Section—Machinery and Supplies. 5-19

Tex., Houston—Seaport Bag Co., Harry Redman, Pres., 1015 N. San Jacinto St., probably rebuild plant burned at loss of \$60,000.

Tex., Laredo—Hamilton Hotel Co., capital \$285,000, incorporated; L. L. Stephenson, M. Little, W. W. Kelley.

Tex., Lockhart—Publishing—Lockhart Post Register, capital \$30,000, incorporated; W. M. Schofield, R. M. Andrews, H. M. S. Hohle.

Tex., Lufkin—East Texas Theaters, Inc., capital \$100,000, chartered; E. L. and J. K. Kurth, of Lufkin; Sol E. Gordon, Beaumont.

Tex., McWayne—Construction—Henry & Holland, capital \$30,000, incorporated; G. W. Henry, T. G. Holland, O. B. Orr.

Tex., Nocona—Merchandise—N. W. Flynt & Co., capital \$20,000, incorporated; N. W. Flynt, S. M. Allen, R. E. Flynt.

Tex., Orange—Texas Creosoting Co., R. S. Manley, Pres., offering \$450,000 of 7% cumulative preferred stock, through Taylor, Ewart & Co., Post-Dispatch Bldg. and C. P. Mann & Co., Niels Esperson Bldg., both Houston.

Tex., San Antonio—Yeast—Fleischman & Co., 1303 W. Commerce St., Wm. A. Williams, local Mgr., plans erecting 1-story, 60x150-ft. building; steel, concrete and brick, Hoeftgen Ave. and Carolina St.

Tex., San Antonio—Sid Katz, 1513 E. Houston St., and Associates erect paint shop, 1600 block Broadway; 1-story, 54x150 ft., reinforced concrete frame, brick and hollow tile, cost about \$13,000; Morris & Noonan, Archts. and Engineers, Builders Exchange Bldg.; to be occupied by A. L. Hackenberger, 444 S. Alamo St.

Tex., San Antonio—Watt & Watt, care of Travis Lumber Co., Pleasanton Rd., have contract for labor on Egg-Laying Contest plant; all supplies and materials to be purchased and delivered by Building Committee of Contest Board of Directors.

Tex., Wichita Falls—R. O. Harvey Co., capital \$200,000, incorporated; R. O. Harvey, Harvey-Snider Bldg.; John C. Lee, Mrs. Chloe B. Harvey.

W. Va., Huntington—American Thermos Bottle Co., G. C. Ashton, Mgr., W. Ninth St., plans to repair and remodel furnaces, etc.; material all purchased.

W. Va., Huntington—Paper Distributors—Price-Culton Co., Inc., W. C. Price, Pres., 216-18 Eighth St., reported, has taken over Ohio Valley Paper Co., Second Ave.

W. Va., Wheeling—Producers Milk Products Co., capital \$100,000, incorporated; E. W. Green, J. A. Chambers, 134 Wheeling Ave.; both Wheeling; E. A. Park, West Alexander.

Motor Bus Lines and Terminals

N. C., Beaufort—Carteret Transit Corp., capital \$100,000, chartered; D. E. DeNoyer, Julius Duncan, L. B. DeNoyer.

N. C., Greensboro—J. E. Latham Co., Jefferson Bldg., let contract to John T. Hunt, 401 S. Edgeworth St., for bus terminal, E. Market St.; plumbing to W. P. Donaldson, 228 Sycamore St.; heating to W. W. Dick, 246 Bellemeade St., all Greensboro. 5-19

Tenn., Jackson—Smith Motor Co., establish new bus line between Paris and Jackson, via McKenzie and Huntingdon; additional service to Lexington, Perryville and Corinth, Miss., under consideration.

Va., Haysia—K. W. Crabtree has permit to operate passenger bus service between Haysia and Grundy.

Motor Cars, Garages, Filling Stations

Ala., Mobile—West-Barnes Motor Co., 158 N. Royal St., reported, purchased Gulf Motors, Inc.; merged companies will occupy building Government and Conception St.

Ark., El Dorado—Herman-McCain Contracting Co., Reigler Bldg., Little Rock, reported, has contract for new home of Roach-Harb Ford Agency, 110x424-ft., brick and reinforced concrete, fireproof; estimated cost \$100,000.

D. C., Washington—W. L. Koontz, 1800 14th St., S. E., erect \$13,000 garage and service station, 1301 Good Hope Rd. S. E., 1-story, 40x72-ft., brick, cement floors, concrete roofing; J. M. Powell, Contr., 628 Sixth St., N. E.; Alfred G. Powell, Archt., 1914 Newton St., N. E.

Fla., Miami—Busy Bee Filling Station Co., 801 N. W. Second Ave., capital \$10,000, incorporated; B. A. Meginniss, P. B. Goode, Elizabeth M. Goode.

Ga., Atlanta—Fairmeasure Station Co., capital \$10,000, incorporated; L. M. Morris, 125 East Lake Rd.; C. R. Morris, 741 Fredericks St. N. E.

Ky., Mt. Sterling—Capital Chevrolet Co., capital \$10,000, incorporated; Frank W. Stith, H. H. Shoemaker, H. B. Pribble.

La., New Orleans—Motor Equipment Co., Inc., capital \$10,000, chartered; Lyone G. Moody, Earl P. Gore.

La., New Orleans—Fern Service Station, Inc., capital \$10,000, incorporated; J. A. Chotin, 7834 Hickory St.; P. J. Tomeny, 1824 Cadiz St.; John H. Chotin, 1219 St. Roch Ave.

Miss., Gulfport—Rice Manufacturing and Distributing Co., capital \$20,000, incorporated; R. L. Rice, Sr., R. L. Rice, Jr., M. R. Sibley; manufacture safety driving device for automobiles.

Miss., Jackson—Carroll Tire Co., capital \$20,000, incorporated; A. B. Carroll, Joseph Heuck, 215 N. State St.; J. H. Young.

Miss., Meridian—R. and M. Tire Service, capital \$10,000, incorporated; C. L. Rosebaum, B. R. Mosby.

Mo., Carthage—Geo. Miller has contract to remodel building occupied by St. John's garage; cost about \$10,000; Lloyd Cowgill, Owner, 1410 Grand St.

Mo., Joplin—Erwin-Chapman Tire Co., Fourth and Wall Sts., plans erecting \$50,000 service station, sales room and warehouse cor. Seventh and Wall Sts.; 1-story, 70x134 ft., Spanish-type gables, reinforced concrete and steel; install 5x16-ft. skylights; C. H. Sudholter, Archt., 715 Joplin St.

Mo., Kansas City—Southwestern Bell Telephone Co., 11th and Oak St., let contract to Geo. Fuller Green Construction Co., 429 Rialto Bldg., for 1 and 3-story, warehouse cor. and garage at 3433 Roanoke St., 120x324-ft., brick and concrete; cost about \$200,000 1-27

Mo., Kansas City—L. Q. Skidmore, Kansas and Berger Sts., reported, acquired site cor. Fourteenth and Holmes Sts.; erect \$14,000 filling station.

N. C., Beaufort—Brooks-Chapin Motor Co., capital \$100,000, incorporated; Geo. J. Brooks, H. L. Chapin, J. F. Duncan.

N. C., Burlington—Hanner Motor Co. of Sanford, will occupy building to be erected by C. F. Finch, Thomasville; 2-story, 50x90 ft., art brick, modern construction.

N. C., Burlington—Acme Motor Co., Inc., Worth St., capital \$75,000, chartered; W. R. Freshwater, 913 S. Main St.; G. E. Love, Summit Ave.; John T. Love, W. Davis St. occupy building to be erected by C. F. Finch, Thomasville; 2-story, 50x90 ft., art brick, modern construction.

N. C., Raleigh—Julian A. Rand, 6 Fernell Lane, let contract to Kenyon-Thompson Co., Odd Fellows Bldg., Box 677, at \$28,144 for garage, 80x120-ft., 1-story, brick and steel, cement floor, composition roof, steel trusses; all materials contracted for; G. Murray Nelson, Archt., 732 Nash Drive. 4-21

Okl., Tulsa—Peerless-Tulsa Co., capital \$50,000, incorporated; Michael Helfrich, Harry F. Weaver, both Evansville, Ind.; J. R. Hamilton, 3611 N. Shartel St., Oklahoma City.

S. C., Columbia—Bryan Motor Co., incorporated; J. B. Roddy, 3501 Main St., S. S. Roddy.

Tenn., Johnson City—Chevrolet Motor Co., erecting building, Love addition; 1-story, steel and brick.

Tenn., Nashville—Louis T. Hooper Tire Co., capital \$10,000, incorporated, R. L. Stockard, Nichol Bldg.; Louis T. Hooper, J. M. Cullum, 4811 Park Ave.

Tex., Albany—Russ-Webb Motor Co., let contract to C. A. Fuess & Co., 1900 N. St. Paul St., Dallas, at \$14,000 for 1-story, 80x90 ft. garage, filling station and showrooms; hollow tile and brick, concrete floors, plate glass front, asphalt roof; C. H. Griesenbeck,

Archt., 607 Industrial Bldg., Dallas. See Wants Section—Mch. and Supplies. 5-12

Tex., Amarillo—Continental Oil Co. of Texas, 99 Taylor St., reported, let contract to C. S. Lamble & Co., Amarillo Bldg., for filling station, 1-story, 30x30-ft., brick, metal tile roof, etc.

Tex., Brownsville—Alexander Motor Co., capital \$10,000, incorporated; R. R. Alexander, C. C. Alexander, E. H. Alexander.

Tex., Dillay—Midway Garage, incorporated; L. B. Alford, D. S. Redus, Mrs. Annie Alford.

Tex., Fort Worth—Doran Marmon Co., Paul Doran, Distributor, Medical Arts Bldg., reported, probably erect new sales and service building.

Tex., Houston—Allen & O'Rourke received contract at \$21,848 for erection garage at central water plant; W. A. Dowdy, Cty Archt.

Tex., Longview—Gregg Chevrolet Co., increased capital, \$10,000 to \$15,000.

Tex., Nacogdoches—McKnight Chevrolet Co., capital \$25,000, incorporated; E. P. McKnight, J. J. Green, Mrs. E. P. McKnight.

Tex., Plainview—Gulf Refining Co., R. L. Craig, Local Mgr., plans erecting filling station on Baltimore St., L. J. Thomas, Hous-ton, Supt. of Construction.

Va., Norfolk—Casterton Tire and Rubber Co. Inc., W. J. Casterton, Pres., F. R. D. No. 2, Box 264, increased capital \$5000 to \$50,000; erecting 1 and 2 story, 60x125-ft. building.

Railways

Ky., Munfordville—Hart & Grayson Railroad Co., of Louisville, Ky., capital \$100,000, incorporated to operate and maintain railroad from Munfordville northwest to Grayson Springs, about 25 mi. through parts of Hart and Grayson Counties. Incorporators: J. H. L. Harper, Fullison L. Speiden, George A. Brent, Frank C. Hughes, Roy L. Carter, Hugh B. Fleece and John H. Chandler of Louisville.

W. Va., Preston—Morgan Valley Railroad Co., capital \$200,000, chartered to build three lines out of Preston, viz. Up Lick Run, 3 mi.; to a point on Morgan's Run, 3 mi.; across Cheat River and down stream on its east side and below Muddy Creek, 6 mi. Directors: H. T. Lincoln, J. C. Gibson, J. A. Smith, J. V. Gibson, C. W. Craig.

Railway Shops and Terminals

Tex., Amarillo—Chicago, Rock Island and Pacific Ry. Co., A. W. Hawk, Engr. of Buildings, 803 LaSalle St., Chicago, Ill., advises: Let contract to Jos. E. Nelson & Sons, 3240 S. Michigan St., Chicago, for roundhouse addition, including 6 stalls each 102-ft. long, brick, concrete floors, composition roof; cost about \$50,000. 5-19

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Alabama—See Bridges, Culverts, Viaducts.

Ala., Carbon Hill—Town plans expending about \$50,000 for 9 blocks street paving in business section. Address Town Clk.

Ala., Mobile—City Comm., Harry T. Hartwell, Mayor, plans paving various streets, including Water, Commerce, Virginia.

D. C., Washington—Dist. Commrs. receive bids May 31 for concrete curbs and gutters; plans on file at Dist. Room 427 Dist. Bldg.

Florida—State Road Dept., Tallahassee received low bids for 5 roads and bridge: Bradford County—Road No. 28, 11.12 mi. grading and draining, Union County line to Starke, F. X. Bradley, 2 Charlotte St., St. Augustine, \$51,840; 12 mi. Road 28, from Starke to Putnam County line, \$77,968; Flagler County—Road No. 4, 13.81 mi. surface-treated limrock base, between Pellicer's Creek and Bunnell, Cone Brothers, Caesar and Walton St., Tampa, \$229,269; Indian River County, Road No. 4, 5.52 mi. concrete, between Vero Beach and Fort Pierce, Fowler & Bank, Inc., Mount Dora, \$150,331; St. Lucie County—Road 4, 7.38 mi. concrete, Vero Beach to Fort Pierce, \$208,148; Dade County—Road No. 4, 132-ft. concrete bridge over Biscayne Canal, General Construction Co., E. Broadway and 15th St., Tampa, \$36,844.* 4-28

Fla., Crestview—Okaloosa County Commissioners plan road building, including completing and opening Gulf Coast Highway. See Financial News—Bond Issues Proposed. 5-12

Fla., Green Cove Springs—Clay County Commrs. considering rebuilding roads in Special Road and Bridge Dist. No. 8.

Fla., Hollywood—City Comm. plans widening to 66 ft. and improving Federal Highway through city. See Financial News—Bond Issues Proposed.

Fla., Miami Beach—City, C. A. Renshaw, Mgr., received low bid from N. J. Balestrieri, at \$43,013, for 31,000 sq. yd. 4-in. deep sidewalks, 2800 sq. yd. driveway crossing sidewalks, 6-in. deep, 2600 sq. yd. rock approaches from sidewalks to street temporary paving of asphalt.

Fla., Pensacola—Escambia County Commrs., Langley Bell, Clk., considering expending \$220,000 to improve about 50 mi. roads: Lillian road and Lillian Bridge; Molino-Atmore highway; standard grade concrete highway from city limits to Escambia Bay Bridge; improve Pensacola-Ferry Pass road; F. B. Carter, County Judge. See Financial News—Bond Issues Proposed.

Fla., Pensacola—City Commrs., Mayor Bayliss, plan about 500,000 sq. ft. 6-ft. wide sidewalk paving, and curbing, totaling 15 mi. in East Hill section.

Fla., Sarasota—Sarasota County Commrs., J. R. Peacock, Clk., receive bids June 6 to grade and drain and pave 2 roads: 5.2 mi. John Ringling Parkway; 1.6 mi. Jackson road; plans on file and from F. E. Schnepe, County Engr.

Fla., Tampa—City Comm., Lesley Brown, Mgr., receives bids May 31 for 4842 sq. yd. 2 1/2-in. vitrified brick pavement, asphalt filler on shell or limrock base, 2 1/2-in. asphalt block pavement, shell or limrock base, (Delaware Ave. only), or 1 1/2-in. natural rock asphalt on 5-in. cement concrete base, with 1 1/2-5 mix, (Delaware Ave. only), 6-in. cement concrete pavement, with 1-2-3 mix; 3477 lin. ft. granite curb, concrete curb, and combined concrete curb and gutter, integral concrete curb with cement concrete pavement only, 1-2-3 mix; 2370 cu. yd. grading; plans from City Engr.

Fla., Quincy—State Road Dept., Tallahassee, plans hard surfacing State Road No. 1, through Gadsden County, from Leon County line to Jackson County line; \$260,000 available; J. L. Cresap, State Highway Engr.

Fla., Venice—City, Edw. L. Worthington, Mayor, receives bids May 30 for 5410 ft. grading, draining and paving with 6-in. shell concrete, 21 and 31 ft. wide, combination concrete curb and gutter, shell concrete sidewalks on each side, on 5 streets, including Fisole St., Valencia Road; plans from Engr.

Ga., Atlanta—City, I. N. Ragsdale, Mayor, plans extending Broad St. from Mitchell through to Whitehall St.

Ga., Waycross—State Highway Dept., East Point, will let contract July 12 for asphalt top-surfacing highway from Waycross to Clinch County line; W. R. Neel, State Highway Engr.

Kentucky—State Highway Comm., Frankfort, receives bids June 30 for 10 roads and bridge: Boone County—4.6 mi. grade and drain, Florence-Warsaw Road, Union to 1/2 mile east of Beaver Lick; Breckinridge County—11 mi. surfacing, Hardinsburg Road, Hardinsburg to Cloverport; Graves County—8.7 mi. surfacing, Mayfield-Fulton Road, Mayfield to Wingo; Jackson County—4.2 mi. grade and drain, Richmond-McKee Road, from point northwest of McKee to McKee; 10.5 mi. grade and drain, McKee-Manchester Road, McKee to Tyner; Knott-Perry Counties—12.9 mi. grade and drain, Hindman-Dwarf Road, Hindman, Knott County, to intersect Hazard-Jackson Road, at Dwarf. Perry County: Lee County—2.5 mi. grade and drain, Beattyville-Jackson Road, from point west of Tallega to Breathitt County line near Athol; McCreary County—overhead crossing, at Whitley City, on Whitley City-Somerset Road, four 21-ft. and one 31-ft. reinforced concrete spans; Meade County—9.3 mi. surfacing, Brandenburg-Hardinsburg Road, Brandenburg to Breckinridge County line; Ohio County—7.2 mi. surfacing, Hartford-Owensboro Road, Beda to Daviess County line near Pleasant Ridge; Washington County, 10 mi. 15,000 tons crushed limestone, Springfield-Lawrenceburg Road, Springfield to Willisburg; plans from E. N. Todd, State Highway Engr.

Ky., Frankfort—City, C. T. Coleman, Mayor, receives bids May 27 to pave 10 streets, including Murray, Conway, with reinforced concrete, sheet asphalt, asphaltic concrete (Topeka or Amesite), or rock asphalt; plans from City Clk. or W. J. Horrigan and Associates, Inc., 513 McClure Bldg., Frankfort, and 708 Realty Bldg., Louisville.

Ky., Paducah—City received low bid from G. W. Katterjohn & Son, 433 Jeff St., at \$86,203, for about 10 mi. concrete sidewalks, curbs, gutters and driveways; E. R. Bradshaw, City Engr. 5-12

Louisiana—Louisiana Highway Comm., Baton Rouge, receives bids June 7 for 3 roads: East Feliciana Parish—1.91 mi. Clinton-Baton Rouge Highway, from East Baton Rouge-East Feliciana Parish line to Olive Branch; 4.93 mi. Slaughter-Bluff Creek Agricultural High School Highway, from Slaughter to Olive Branch, including road connecting with Clinton-Baton Rouge Highway at Olive Branch; East Baton Rouge Parish—1.3 mi. Clinton-Baton Rouge Highway, from East Baton Rouge-East Feliciana Parish line to present gravel road; plans on file; J. M. Fourny, State Highway Engr.

La., Many—Sabine Parish Police Jury, J. M. Abington, Sec., receives bids June 1 for 8 mi. gravel road, from Ward 2 line, through Negreet to intersection Many-Pendleton road; plans on file.

Maryland—State Road Comm., Baltimore, receives bids June 7 for 4 roads: Allegany County, 6 mi. concrete, along River Road, from end of Cont. A-40, toward McCool, Cont. A-41; Frederick County—1.1 mi. concrete, between Myersville and Elertown, Cont. F-13; Baltimore City—.5 mi. sheet asphalt, along Hayward Ave., between Reisterstown Road and Park Heights Ave., Cont. BC-68; Worcester County—1 mi. concrete, from Trapp Mills toward Lewis' store, Cont. WO-36; plans on file; John N. Mackall, Chmn.; L. H. Steuart, Sec.

Maryland—State Roads Comm., Baltimore, received low bids for 10 roads and 3 bridges: Caroline County—1.60 mi. concrete, from Delaware State line near Whitleyburg toward Greensboro, P. D. Phillips & Brother, Salisbury, \$27,032; Frederick County—1.1 mi. concrete, New London toward Libertytown, M. J. Grove Lime Co., Marine Bank Bldg., Baltimore, \$26,848; Worcester and Wicomico Counties—2.30 mi. concrete along Salisbury-Snow Hill road, from end of Cont. No. W-35 toward Snow Hill; .56 mi. along Mt. Hermon road, from East Main St., Salisbury east; both to P. D. Phillips & Brother, \$53,124.

In Cecil County—3.68 mi. concrete shoulders along Post road, from end of Cont. C-10-A to Northeast, exclusive of Charlestown Cut-off, Broad Creek Construction Co., Ellicott, \$25,740; Carroll County—.99 mi. concrete along Liberty road, from end of Cont. Cl-60 toward Libertytown; 1.01 mi. along Ridge road, end of Cont. Cl-56 toward Westminster; 1.03 mi. along Ridge road, end of Cont. Cl-149 toward Mt. Airy, all Thomas, Bennett & Hunter, Westminster, \$67,164; Calvert County—1.50 mi. gravel, Lower Marlboro, from end of Cont. C-24 to Patuxent River, Thomas Mullan, 3945 Greenmount Ave., Baltimore, \$12,103; Carroll County—2 mi. concrete shoulders along Westminster-Eldersburg road, Westminster to Fenby, John S. Teeter, Tanytown, \$14,200.

In Frederick County—.86 mi. concrete along Knoxville-Brunswick road, Knoxville to end of Cont. F-33, M. J. Grove Lime Co., \$20,080; Baltimore County—.5 mi. concrete shoulders and resurfacing along Philadelphia road, Baltimore City line toward Poplar, Baltimore Asphalt Block & Tile Co., 1320 N. Monroe St., Baltimore, \$73,410; Cecil County—3.01 mi. concrete shoulders along Rising Sun-Sylmar road, from Rising Sun to Sylmar, Thomas, Bennett & Hunter, \$19,754; Worcester County—single 20-ft. span reinforced concrete slab bridge over Jones' Mill Dam on Berlin-Snow Hill road, Hannaman-Burroughs Co., Salisbury, \$6975; Frederick County—double span, 22-ft. each, reinforced concrete slab over Carrol Creek, on South Market St., Frederick, Concrete Steel Bridge Co., Clarkburg, W. Va., \$8885; Baltimore County—single 56-ft. span reinforced concrete arch bridge over Little Gunpowder Falls, Harford road, between Fork and Belair, Catalana & Pecora Construction Co., Old Town National Bank Bldg., Baltimore, \$6264. 5-12

Md., Cumberland—City plans widening Frederick St. from North Mechanic St. Central Fire Station building. Address City Clk.

Md., Frederick—Mayor and Board of Aldermen plan repairing Chapel and Middle Alleys between Fifth and Sixth Sts. Address City Engr. Maxwell.

Md., Towson—Baltimore County Commrs., John R. Haut, Ch. Clk., receive bids May 31 for concreting section of Lyons Mill Road, Second Dist., and Smith Ave., Third Dist.; Samuel A. Green, Roads Engr.

Miss., Oxford—City, W. T. Chandler, Clk., receives bids June 7 for 30,000 sq. yd. grading, drainage and plain concrete, vibrolithic, concrete base, asphaltic concrete base, sheet asphalt surface, Warrenite bitulithic surface and interlocking bituminous pavement; J. Barry Brown, City Engr.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

Manufacturers Record

Miss. Pontotoc—Pontotoc County Board of Supervisors plans hard surfacing 2 roads in Road Dist. No. 2: Bankhead Highway across county from Lee County line to Lafayette County line; road from Chickasaw County line on south to Union County line on north; many public and crossroads, etc.; cost \$600,000. See Financial News—Bond Issues Proposed. 4-21

Mo., Columbia—City plans paving sections of Stewart Road and alley from Fifth to Sixth St. Address City Clk.

Mo., Joplin—City Comm. plans paving Connor Ave with one-course concrete, squeegee asphalt top; Porter Ave., concrete; Thirty-second St., concrete; G. P. Mahoney, Commr. of Streets.

Mo., Marshall—City plans grading and paving roadway of Vest, College St. and Redman, Lafayette and Brunswick Ave. Address City Clk.

Mo., Mexico—City plans grading, paving, curbing and improving Rawlings St., Liberty to Promenade. Address City Clerk.

Mo., St. Louis—Board of Aldermen plans widening Olive St., 60 to 100 ft., from Twelfth Blvd. to Channing Ave.

North Carolina—State Highway Comm., Raleigh, plans receiving bids in June to pave Highway No. 18, north of Shelby, from Toluca to South Carolina line, through Shelby; reported plans receiving bids for Highway No. 205, from Kings Mountain to South Carolina line at Grover; both Cleveland County; W. E. Hawkins, State Construction Engr.

North Carolina—State Highway Comm., Raleigh, received low bids for 11 roads and bridge totaling \$960,021: Onslow County—Route 30, grading and structures, H. M. Beasley, Lumberton, \$16,315; Harnett County—4.39 mi. hard surface, Route 22, Dunn to Cumberland line, Gregory & Weisiger, Pittsboro, \$105,755; Lee County—6.88 mi. grading and structures, Route 50, end of Project 450, to Chatham line, Beal Brothers, Bear Creek, \$45,119; Clifton Currier, \$4901, structures; Person County—6.86 mi. hard surface, Route 13, Virginia State line south, F. E. McGuire, \$76,000; Wake County—3.95 mi. hard surface, Routes 10 and 50, R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, \$104,372; Montgomery County—bridge over Little River, Route 74; C. E. Hill & Son, Oakboro, \$16,459, roadway; T. A. Lawing & Co., \$25,813, bridges; Rowan County—5.87 mi. grading, Route 80, Salisbury to Davie County line, W. E. Graham, Mt. Ulla, \$16,975.

In Iredell County—5.64 mi. grading and structures, Route 75, Turnersburg to Davie County line, Gregory-Chandler, \$40,836, roadway; G. L. Bobbitt, \$24,589, structures; Davie County—9.33 mi. grading and structures, Route 75, Mocksville to Iredell County line, Hobbs-Peabody, \$59,25, structures, J. K. Cevil, Lexington, \$40,183, roadway; Wilkes County—11.27 mi. top-soil, Route 18, Moravian Falls to Caldwell County line, J. H. Gibbs, Asheville, \$89,220, roadway; D. S. Blount, North Wilkesboro, \$39,730, structures; Burke County—9.72 mi. hard surface, Route 10, Valdez to Catawba County line, Carolina Contracting Co., Spartanburg, S. C., \$207,185; Durham County—4.19 mi. hard surface, Route 10, from intersection of Route 10 and Leesville road, to Durham, Gregory & Weisiger, \$109,561. 5-5

N. C., Trenton—State Highway Comm., Raleigh, received low bid from Nello L. Teer, Geer Bldg., Durham, at \$27,610, for grading in Jones County.

Okl., Alva—Woods County Commrs. plan paving 5 roads: Federal Highway No. 64, from county line east of Alva to county line and Keno Bridge west of Alva; hard surface State Highway No. 15, from north county line through Alva to county line south of Waynoka; hard surface State Highway from county line south of Freedom to point north of Freedom at intersection with Federal Highway No. 64; hard surface State Highway Nos. 1 and 45 through county; cost \$500,000. See Financial News—Bond Issues Proposed.

Okl., Watonga—City receives bids May 31 for 6000 sq. yd. 6-in. concrete paving, estimated cost \$20,000; Clarence A. Wood, 414 Medical Arts Bldg., Oklahoma City.

Okl., Waurika—Jefferson County plans building 3 roads: Meridian Highway, from north line of county to Stephens County paving; grade and drain Highway No. 5, to Ringling and Waurika; Highway No. 32 to Hastings. Address County Commrs. See Financial News—Bond Issues Proposed.

South Carolina—State Highway Dept., Ben M. Sawyer, Highway Commr., Columbia, received low bids for 8 roads and approach and bridge: Greenville County—148 mi. ap-

proaches to Enoree River Bridge, Route 8, D. M. Rickenbacker, Union; Dillon County—7.6 mi. Route 23, between Marion County line near Sellers and point north of Latta, W. J. Bryson Paving Co., 239 W. Adams St., Jacksonville, Fla., \$148,605; Dillon County—reinforced concrete bridge, four 22-ft. spans, Route 23, Dillon to Latta, Conard Construction Co., Florence, \$7773; Dillon County—6.9 mi. Route 23, between Dillon and North Carolina line, W. J. Bryson Paving Co., \$124,603; Florence County—10.32 mi. Route 6, between Florence and toll bridge over Pee Dee River, Carolina Contracting Co., Law Bldg., Spartanburg, \$286,999.

Colleton County—11.5 mi. Route 30, between end of Project 99, through Walterboro to Station 540, Deen & Yarborough, Bradenton, Fla., \$276,756; Jasper County—11.62 mi. Route 1, between Ridgeland and Beaufort County line, Hutton Construction Co., Sanford, Fla., \$278,155; Beaufort-Jasper Counties—13.8 mi. Route 1, between end of Project 199, north of Hardeeville and Georgia line, Hutton Construction Co., \$302,276; Williamsburg County—15.2 mi. Route 26 and 41, between Kingstree and Santee River Causeway, W. J. Bryson Paving Co., \$348,330; Jasper County—7.71 mi. grading, Route 1, from point near Coosawhatche, to Ridgeland, O'Brien Engineering and Construction Co., Peninsula Casualty Bldg., Jacksonville, \$17,639.

S. C., Charleston—City plans asphalt surfacing over vitrified brick, on Wentworth St.; plans about 3 1/2 mi. paving, during 1927; James H. Dingle, City Engr.

S. C., Gaffney—City, V. H. Lipscomb, Mayor, plans 2 1/2 blocks additional paving on South Logan St.

Tenn., Chattanooga—City, Roger Crox, Commr. of Streets, plans 80-ft. wide street from Broad St. to south end of Market St. Bridge.

Tennessee—Dept. of Highways and Public Works C. N. Bass, State Highway Commr., Nashville, receives bids June 24, tentative date, for highway building in 10 counties: approximate cost \$2,000,000. 5-19

Tenn., Knoxville—Knox County Comm. plans rock road from Ball Camp pike to Byington.

Tenn., Lewisburg—Marshall County Court plans widening Highways Nos. 50 and 51, through county. See Financial News—Bond Issues Proposed.

Tenn., Manchester—Dept. of Highways and Public Works, Nashville, plans road from Tullahoma to Camp Peay; Legislature appropriated \$10,000.

Tenn., Sparta—City Comm. plans asphalted streets adjacent to public square.

Texas—State Highway Comm., R. S. Sterling, Chmn., Austin, plans grading and bridges on 3 roads: Shackelford County—17.358 mi. Highway No. 1-A, from intersection with Highway No. 1, to Jones County line, estimated cost \$76,000; Jones County—.579 mi. Highway No. 1-A, Shackelford County line to Callahan County line; Callahan County—.649 mi. Highway No. 1-A, Jones County line to Taylor County line, estimated cost \$17,000; R. A. Thompson, State Highway Engr.

Tex., Abilene—Taylor County, Tom K. Eplen, County Judge, plans 15 mi. grading and bridges, Highway No. 1, from Abilene to Tuscola, estimated cost \$120,000; L. C. McCanlies, Res. Engr.

Tex., Amarillo—Potter County, Sam B. Motlow, County Judge, plans macadamized, graveled or paved roads, and oil field highway; cost \$500,000; E. M. Pittman, County Clk.; J. W. Ryder, County Engr. See Financial News—Bond Issues Proposed. 4-21

Tex., Albany—State Highway Comm., R. S. Sterling, Chmn., Austin, plans receiving bids for 13,596 mi. asphalt macadam surfacing, Highway No. 18, from end of Federal Aid Project No. 477-A, to Jones County line, Shackelford County, estimated cost \$215,000; R. A. Thompson, State Highway Engr.; J. E. Pirle, County Engr.

Tex., Bay City—Matagorda County Court plans 4 main and several lateral roads, totaling 150 mi., cost \$2,302,750. Address County Commr. See Financial News—Bond Issues Proposed. 5-5

Tex., Bellville—Austin County plans completing Highway No. 73A, through Nelsonville, Industry, and Bellville, terminating at Brazos River Bridge, between Hempstead and Bellville; C. D. Duncan, County Judge. See Financial News—Bond Issues Proposed.

Tex., Bellville—State Highway Dept., R. S. Sterling, Chmn., Austin, will let contract for 9.16 mi. concrete, Highway No. 36, from Fort Bend County line to Road Dist. No. 3.

Austin County; Herbert Schroeter, County Engr. 5-19

Tex., Carrizo Springs—Dimmitt County, Wm. H. Davis, County Judge, plans 7.56 mi. grading and bridges, Highway No. 55, from point about 11 mi. south of Zavalla County line, south, estimated cost \$79,000; James G. Lott, County Engr.

Tex., Clyde—City receives bids soon for 23,000 sq. yd. paving, and 6000 ft. curb and gutter; Koch & Fowler, Engrs., 801 Central Bank Bldg., Dallas.

Tex., Columbus—Colorado County considering creating Road Dist. No. 3, from Altair westward to county line, including Rock Island and Sheridan, plans road building in Dist. cost \$100,000. Address County Commrs. See Financial News—Bond Issues Proposed.

Tex., Cuero—DeWitt County, Stanley Kulawik, County Judge, plans grading, bridges, gravel base, asphalt top, Highway No. 119, to Goliad County line; estimated cost \$152,000; S. H. Gullede, Engr.

Tex., Cuero—DeWitt County, Stanley Kulawik, County Judge, plans 7 mi. grading, bridges, gravel base, asphalt top, Highway No. 72, Cuero-Hallettsville road, Yorktown to Nordheim Road Dist. line, estimated cost \$85,500; S. H. Gullede, Engr.

Tex., Dallas—Dallas County, F. H. Alexander, County Judge, plans .7 mi. asphalt surfacing, on concrete base, Highway No. 6, from city limits to Mockingbird lane; estimated cost \$30,300; R. H. Clinger, County Engr.

Tex., Dilley—City, Roy Busby, Mayor, plans street paving, cost \$30,000. See Financial News—Bond Issues Proposed.

Tex., Fairfield—Freestone County Commrs. plan concrete road across county from Trinity River bridge, being completed.

Tex., Galveston—State Highway Comm., R. S. Sterling, Chmn., Austin, plans 3.3 mi. grading, bridges, concrete pavement and shell shoulders, Highway No. 6, Galveston-Houston road, League City to Dickens; estimated cost \$160,725; C. C. Washington, County Engr.

Tex., Galveston—Galveston County, E. B. Holman, County Judge, plans 4.96 mi. grading, bridges and reinforced concrete pavement, Highway No. 6, Galveston-Houston road, Dickinson to North La Marque crossing, estimated cost \$223,000; C. C. Washington, County Engr.

Tex., Groesbeck—Limestone County Commissioners Court, J. B. Watson, Jr., County Auditor, plans 10 mi. gravel roads, Road Dist. No. 20; cost \$75,000. See Financial News—Bond Issues Proposed. 5-12

Tex., Hamilton—City plans street paving, cost \$60,000. Address City Clk. See Financial News—Bond Issues Proposed.

Tex., Hebronville—Jim Hogg County, A. M. Brumfield, County Judge, plans 10.17 mi. caliche surfacing, rock asphalt top, Corpus Christi-Laredo Highway, through county; estimated cost \$65,000; E. J. Foster, County Engr.

Tex., Houston—Harris County Commrs., H. L. Washburn, County Auditor, plans receiving bids soon for 5 mi. concrete Clinton road, between underpass at Sixty-ninth St. Bridge, and Galena; plans grading 2 mi. road beyond Galena.

Tex., Houston—San Jacinto Trust Co., Humble Bldg., developers of Rice Court, plans paving Rice Blvd., from Kirby Drive to Wakeforest Ave.; 35-ft. wide, 8-in. shell (packed), 2-in. asphalt inverted penetration topping, curb and gutter; J. H. Rafferty, Engr. for City of West University Place, 408 Keystone Bldg., Houston. 5-5

Tex., Huntsville—Walker County, P. H. Singletary, County Judge, plans 14.1 mi. grading and bridges, Highway No. 45, from Huntsville to San Jacinto line, estimated cost \$135,000; D. K. Caldwell, County Engr.

Tex., Laredo—Webb County, A. Winslow, County Judge, plans improving 2 roads: 10.782 mi. 18-ft. reinforced concrete paving, Highway No. 12-A, Laredo—Hebronville road, from city limits, east, estimated cost \$295,000; 1.238 mi. 21-ft. concrete paving, Highway No. 12-A, underpass section, extending 2,006 ft. each way from Aguilares, estimated cost \$25,000; T. E. Huffman, County Engr.

Tex., Linden—Cass County, R. H. Harvey, County Judge, plans 5.64 mi. 1-in. rock asphalt on stone base, Highway No. 8, from

Douglasville to point near Frazier Creek; estimated cost \$110,000; S. B. Jones, Res. Engr.

Tex., Llano—Llano County plans improving Highway No. 29, east and west through County; M. V. Tyson, Road Supvr. of Llano and Burnet Counties, direct work.

Tex., Panhandle—Carson County, A. A. Callaghan, County Judge, plans 9.85 mi. grading and bridges, Highway No. 33, from Potter County line, through Lee to Station 518-00, estimated cost \$30,000; bids soon; Larro O. Cox, County Engr.

Tex., Pittsburg—Camp County, Joe R. Hooten, County Judge, plans 5.019 mi. macadam base with triple bituminous surface treatment, Highway No. 65, between Pittsburg and Titus County line; estimated cost \$77,000; Chas. Chappelle, County Engr.

Tex., Raymondville—Willacy County, A. B. Crane, County Judge, plans 9.607 mi. grading and bridges, Highway No. 96, Cameron County line to Raymondville; estimated cost \$16,300; J. E. Johnston, County Engr.

Tex., Rusk—Cherokee County Commsr. Court plans permanent hard-surfaced roads in county, cost \$2,500,000. Address County Commsr. See Financial News—Bond Issues Proposed.

Tex., San Antonio—City, John W. Tobin, Mayor, plans receiving bids at once to pave Carson St.; approximate cost \$42,000; I. Ewig, City Engr.

Tex., San Antonio—City, John W. Tobin, Mayor, plans expending about \$416,000 to improve 2 downtown streets: Widen Nueva St. to 70 ft., from Garden to South Alamo; extend East Travis St. 55.5 ft. wide, including sidewalks, from North Alamo St. to Nacogdoches St.; plans paving Carson St.; cost \$42,000; paving Cedar and Reynolds Sts.; I. Ewig, City Engr.

Tex., Seymour—Baylor County, J. T. St. Clair, County Judge, plans 13.45 mi. bituminous surfacing, macadam base, Highway No. 23, Seymour to Throckmorton County line; estimated cost \$200,000; J. G. Rollins, Res. Engr.

Tex., Sinton—San Patricio County plans topping highway from Portland to causeway. Address County Commsr.

Tex., Uvalde—Uvalde County plans hard-surfaced road, Road Dist. No. 1, connecting with road from Zavalla to Kinney counties; cost \$150,000; H. B. Hodges, County Engr. See Financial News—Bond Issues Proposed.

Tex., Wharton—Wharton County, John Norris, County Judge, plans 2.47 mi. grading and bridges, Highway No. 60, from Hungerford, north, estimated cost \$28,750; Nagle-Witt-Rollins & Gilchrist, Res. Engrs.

Va., Alexandria—District of Columbia, Lieut.-Col. J. F. Bell, Engr. Commr. of District, plans resurfacing $\frac{1}{2}$ -mi. roadway at south end of Highway bridge; approximate cost \$15,000; Wm. Albert Smoot, Mayor.

Va., Pulaski—Town, E. W. Calfee, Mayor, receives bids June 6 for about 2 $\frac{1}{2}$ mi. concrete paving, about 28,617 sq. yd., and 1,067 sq. yd. bituminous macadam pavement; about 5 $\frac{1}{2}$ mi. 8-in. sanitary sewers; plans on file. 5-5

Va., Richmond—City, R. Keith Compton, Director of Public Works, plans letting contracts early in June for curbs and gutters in Northside, West End, East End and Southside sections; cost about \$107,600. 5-5

Va., Rockymount—Franklin County Board of Supvrs. appropriated funds to improve highway between Rockymount and Gretna, State Highway No. 20.

West Virginia—State Road Comn., Charles-ton, receives bids June 7 for 3 roads: Wyoming County—6 mi. modified bituminous macadam, Medicus-Amigo road; Braxton County—6 mi. bituminous macadam. Sutton-Flatwoods road; E. B. Carskadon, Sec.

W. Va., Clarksburg—Harrison County, Tenmile District, plans building and improving 15 mi. roads through district, connecting Big Tenmile Creek with Sardis and other towns and villages in district. Address County Commsr. See Financial News—Bond Issues Proposed.

W. Va., Hurricane—Town plans street improvements. Address Town Clk.

W. Va., Lewisburg—Greenbrier County Court, Paul C. Hogsett, Clk., plans grading, draining and paving 6 roads in Irish Corner Dist.: 2 $\frac{1}{2}$ mi. knapped stone, filled and rolled, 2-in. thick, 9-ft. wide, from Organ Cave Store along Monroe Draft road to point near New

Hope Church; 3 mi. road from Organ Cave Store along Old Ronceverte road to forks of Ridge road near Chestnut Grove school, then along road to forks of road west of Elizabeth Chapel; 2 $\frac{1}{4}$ mi. road from State Road in South Ronceverte to intersection of River road; 4 mi. 16-ft. wide, Old Turnpike, from Fort Spring to Monroe County line; 2 mi. road, from Turnpike near "Toll House" toward Mount Vernon School; improve Monroe Draft road, from C. & O. R. R. to end of Project No. 1; cost \$108,000; Julius K. Monroe, County Road Engr. See Financial News—Bond Issues Proposed.

W. Va.—Wheeling—Ohio County Commsr. plan paving with macadam Greggsville, Clinton and Potomac road from city limits to Pove's Run, from Pove's Run to Bethany Pike.

Contracts Awarded

Ark., Prescott—Commsr. of Paving Dist. No. 2, V. C. Scott, Chmn., let contract to Selz Construction Co., McGhee, at \$70,000 for 15 blocks street paving. 5-12

Fla., Inverness—Citrus County Commsr. C. E. Connor, Clk., let contract to L. B. McLeod Construction Co., 416 Tampa St., Tampa, at \$117,237, for 11.8 mi. 16-ft. grading, drainage, limestone base, and two-course surface treatment, from Red Level to Dunnellon. 4-28

Ga., Cedartown—City let contract to Whitley Construction Co., Lagrange, Ga., to pave various principal streets, including West and College Ave.

La., DeRidder—Louisiana Highway Comn., Baton Rouge, let contract to Wimberly & Barbour, Church Point, at \$41,506, for 2.74 mi. Evangeline Highway, Beauregard Parish, from point west of Starks to Sabine River.

La., Shreveport—City, L. E. Thomas, Mayor, let contract to Shreveport Paving Co., Giddens-Lane Bldg., at about \$24,000 to pave with asphalt on concrete base 3 blocks Perrin Ave.

Md., Baltimore—City, Wm. F. Broening, Mayor, let contract to Joseph A. Larezza & Sons, at \$26,428, to pave with cement concrete, sections of 10 streets, roads, avenues, including Thirty-eighth St., Atwick road, Berger Ave.

Md., Salisbury—State Roads Comn., Baltimore, let contract to P. D. Phillips & Brother Co., Salisbury, at \$95,291, for 5.25 mi. concrete shoulders and resurfacing Salisbury-Ocean City road, Powellsville road to St. Martin, Wicomico-Worcester Counties. 5-12

Miss., Jackson—City let contract to Kaw Construction Co., Topeka, at \$37,851, for about 9 blocks asphalt paving.

Mo., Joplin—City Comn. let contract to Independent Construction Co., at \$1.76 per sq. yd. to pave Moffet Ave., between Seventh and Twenty-second St.

Okla., Newkirk—City Comn. let contract to Larry Watson, at \$10,851, to pave 3 blocks West Eighth St.

Tenn., Knoxville—Knox County Highway Comn. let contracts for 3 roads: To Freeman Brothers & Rooinson, 511½ Market St., to rebuild Millertown road and extend Washington Pike to Union County line; to Ellis & Burkhardt, to extend Maloneville Pike; total cost \$20,000.

Tenn., McKenzie—Carey Reed Construction Co., Guaranty Bank Bldg., Lexington, Ky., has contract for asphalt street paving, curb and gutter, including Burke St., cost about \$200,000.

Tex., Amarillo—City, Jeff D. Bartlett, Mgr., let contract to John McKnight, 105 E. 117th St., at \$34,319, to pave McMaster St.; at \$4852, to pave N. Fifteenth St.; Amarillo Construction Co., at \$28,126, to pave North Eighth St.

Tex., Beaumont—Frank P. McElwraith Co., Corsicana, has contract to complete section Old Spanish Trail out of city and pave approach to Neches River Bridge on Orange side.

Tex., Corpus Christi—Smith Bros., American Natl. Bank Bldg., Dallas, has contract at \$13,388 to pave Hulbert St. and Stillman Ave.

Tex., Groesbeck—Limestone County Commissioners Court, H. F. Kirby, County Judge, let contract to W. E. Dozier, Austin Natl. Bank Bldg., Austin, at \$153,000, for 8 mi. rock base road with 1 $\frac{1}{2}$ -in. macadam topping, Mexia Precinct. 4-28

Tex., Houston—Harris County, Commsr. Court, H. L. Washburn, County Auditor, let contract to Smith, Starkey & James, Stewart Bldg., at \$249,092, for 20 mi. gravel base, crushed rock topping, penetration method, paving on Yale Street road.

Tex., San Antonio—City, John W. Tobin, Mayor, let contract to Colglazier & Hoff, Austin St., at \$33,173, to pave 9 blocks with cold asphalt, on E. Houston St.; to Alamo Paving Co., 321 Dawson St., at \$22,462, to pave with cold asphalt, W. Laurel St.

Tex., San Antonio—City, John W. Tobin, Mayor, let contract to Southwest Bitulithic Co. 302 Castro St., at \$35,430, for 8 blocks hard base, bitulithic topping, paving; Alamo Paving Co., 321 Dawson St., at \$15,034, for hard base, asphalt topping on Arbor Place; Uvalde Rock Asphalt Co., Frost Bank Bldg., to pave Carnahan Ave.; I. Ewig, City Engr.

Tex., San Benito—City let contract to Dodd & Wedegartner, at \$10,000 to pave Ben Lora Lane, Hinkley North Shore Park.

Tex., Slaton—L. H. Howard has contract to pave 15 to 20 blocks concrete base, asphalt topping street paving.

Tex., Wichita Falls—City, W. E. McBroom, Clk., let contract to West Texas Construction Co., 2901 Grant St., at \$18,000 to pave N. Travis St.; L. E. Whitham & Co., 1901 Austin St., at \$12,000 to pave Denver St. F. M. Rugeley, City Engr.

Va., Richmond—City, R. Keith Compton, Director of Public Works, let contract to McGuire & Rolfe, 1211 Electric Bldg., at \$63,553 for 12,000 sq. yd. vitrified brick on 6-in. concrete base paving. 5-5

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Birmingham—Board of Revenue, reported, authorized survey for trunk sewer line to drain Shades Valley; cost \$500,000.

Ala., Montgomery—City, W. L. Jackson, Clk., reported, let contract to Hodgson & Jones, N. Perry St., for installing sanitary sewers in Cloverdale and for terra cotta pipe, manholes, rock excavation, in Carter Hill Road section. 4-21

Fla., Fort Lauderdale—W. S. Lockman Construction Co., West Palm Beach, reported, has contract at \$1,182,445 for installation of about 40 miles of storm and sanitary sewers. 4-21

Fla., Tampa—City Commsr. receives bids May 31 for sanitary sewage disposal plant. See Want Section—Bids Asked.

Ga., Claxton—Town receives bids June 6. See Want Section—Bids Asked. 4-7

Ky., Lexington—F. T. Justice & Co., Fourth and Jefferson Sts., low bidder on sanitary sewers on Oak, Gunn and Kinkaid Sts.

Ky., Louisville—Cannell-Conrad Construction Co., Todd Bld., reported, has contract for sewer through Dorothy Ave.

Ky., Sturgis—City receives bids June 14 for sanitary sewer system and disposal works. See Want Section—Bids Asked.

Miss., Jackson—City, A. J. Johnson, Clk. receives bids June 7 for sanitary sewers. See Want Section—Bids Asked.

Miss., Kosciusko—City voted \$90,000 sewer bonds. Address The Mayor.

Miss., Macon—City, Charles Strong, Mayor, votes June 7 on sewer bonds.

Mo., Jefferson City—Louis Bruner, St. Marys Blvd., reported, has contract for sewers in district No. 34.

Mo., New Madrid—City reported, rejected bids for sewers and water works; R. L. Jones, Clk.

Okla., Blackwell—City voted \$50,000 water and sewer extension bonds. Address The Mayor.

Okla., Konawa—See Water Works.

Okla., Mooreland—City, Omer Schnoebel, Mayor, plans expending \$75,000 for complete water works, sewer system and disposal plant, possibly install septic tanks and evaporation system.

Okla., Seminole—City voted sewer bonds. See Financial News—Bond Issues Proposed.

S. C., Columbia—City let contract to W. J. Bryson, 239 W. Adams St., Jacksonville, Fla. at \$115,530, for sewer system; R. M. Porter, Engr.

S. C., Greenville—Greater Greenville Sewerage Comn. opens bids June 14 for disposal plant on Reedy River, cost \$275,000; for laying 6 mile section of trunk line of 24-in. main and 3600 ft. of 18-in. main, cost \$165,000; on July 15 will let contract for 4300

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

ft. of 21-in. main, 7000 ft. of 18-in. pipe and 95 ft. of 15-in. main, cost \$70,000; J. E. Sirrine & Co., Engrs., Greenville. 5-19

Tex., Amarillo—Kirkwood, Wharton & Lee, San Antonio, 456 Main Ave., reported, has contract for sanitary sewers in North Amarillo. 5-5

Tex., Corpus Christi—Smith Bros., Inc., Santa Fe Bldg., Dallas, has contract for excavation, curbing, guttering, storm sewers, manholes, catch basins, etc. and paving.

Tex., Galveston—John M. Murch, County Auditor, receives bids May 28 for drains. See Want Section—Bids Asked.

Tex., Harlingen—Agar & Gentry, San Benito, reported, have contract for abattoir and sewage disposal plant, A. Tamm, Mgr.

Tex., Houston—Chas. K. Horton, 2202 Clay St., reported, low bidder at \$68,888 for sanitary sewers.

Tex., Houston—Scott Shambaugh, 1401 Dowling St., reported, has contract for sanitary sewers in Windermere.

Tex., Levelland—City, reported, plans installing water and sewer system. Address The Mayor.

Tex., San Benito—J. M. Odom, Austin, reported, has contract for sewage disposal plant; Sanitary Engineering Co., Box 1512, Houston, Engrs.

Tex., Waco—City, E. E. McAdams, Mgr., receives bids June 7 for furnishing materials, labor and constructing sewers. See Want Section—Bids Asked.

Va., Pulaski—See Roads, Streets, Paving.

Va., Pulaski—City voted \$50,000 sewer bonds; E. W. Calfee, Mayor. 5-5

W. Va., Huntington—S. R. Bishop & Co., Coal Exchange Bldg., reported, low bidder at \$7793 for vitrified pipe and \$7793 for concrete pipe for sanitary sewer between Adams and Jefferson Ave. to Four Pole Creek. 5-12

W. Va., Huntington—City receives bids June 6 for lateral sewer in Guyan St. See Want Section—Bids Asked.

W. Va., Hurricane—City, reported, issue bonds for sewer construction. Address The Mayor.

W. Va., Parkersburg—City votes June 23 on sewer and water bonds. See Financial News—Bond Issues Proposed. 4-21

Street Railways

Tex., Port Arthur—Stone & Webster, Inc., H. A. Lemmon, Personnel Dept., Boston, Mass., advises: "The Eastern Texas Electric Co. is going to take over Port Arthur Traction Co. providing franchise situation is worked out satisfactorily with city. The statement that \$400,000 will be expended on improvements and extensions is incorrect; that figure will probably include purchase price as well as improvements, although the extent of latter and their form has not been determined upon." 5-12

Telephone Systems

Okla., Seminole—Southwestern Bell Telephone Co., main office St. Louis, Mo., reported, acquired telephone properties of James Thompson, operated as Seminole Telephone Co.

Tenn., Donelson—Donelson Home Telephone Co., incorporated; E. E. Ridgely, T. B. Boyd, L. W. Lane.

Tex., Dilley—Central Power & Light Co., E. B. Neiswanger, Gen. Mgr., Frost Bldg., San Antonio, reported, probably expend \$200,000 during 1927 for telephone system to Winter Garden; E. B. Neiswanger wires: "Improvements not definitely determined, we are now comparing cost of leased wire service with private lines."

Textile Mills

Ala., Scottsboro—Bungalow Rug Co., advises: "Completing 2 story brick plant. Not sure yet as to equipment we will install; 1 story of this will be for knitting machines and other for looms (or rug department)." 5-12

N. C., Belmont—Thies Dyeing & Processing Co., let contract to Brown-Harry Co., E. Main St., Gastonia, for dyeing and bleaching plant; 143x218 ft. part land 2 story; J. E. Sirrine & Co., Engrs., Greenville, S. C. 3-10

N. C., Burlington—Carolina Hosiery Mills, A. D. Moore, Sec., building plant on S. Broad and Hawkins St.; manufacture half hose; 60x83 ft.; initial installment 40 automatic knitters. 5-12

N. C., Burlington—S. S. Miller Hosiery Mills, Reading, Pa., have opened branch plant.

N. C., Concord—Gibson Mfg. Co., let contract to Brown-Harry Co., E. Main St., Gastonia, for repairing warehouses. 4-21

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Manufacturers Record

Oklahoma—J. C. Milliken, Continental Bldg., Oklahoma City, recently noted as engineer for water works at Troy, Hanna, Francis, Aylesworth, advises: "Have none of the above projects." 5-12

Okla., Blackwell—See Sewer Construction.

Okla., Konawa—City, reported, soon begin work on water mains and sewers; cost \$78,000. Address The Mayor.

Okla., Mooreland—See Sewer Construction.

Okla., Nardin—F. B. King, Engr., Grain Exchange Bldg., Oklahoma City, advises regarding improvements to water works: "We have no information or interest in same." 5-12

Okla., Seminole—City voted water and sewer bonds. See Financial News—Bond Issues Proposed.

S. C., West Greenville, Greenville—Town votes Oct. 4 on \$65,000 water works bonds. Address Town Council.

S. C., Summerville—City, H. H. Jessen, Mayor, voted \$130,000 water works bonds; plans constructing 100,000 gal. tank on 100-ft. tower; power operated pumps; reservoir 300,000 gal. capacity; G. D. Ryan of Ryan Engr. Co., 1216 Washington St., Columbia, Engrs., will supervise construction.

Tenn., Knoxville—City will probably extend water line to subdivision of McLean, Rector and Scott.

Tenn., Signal Mountain—City, reported, considering \$75,000 bond issue for water main extension and erection of standpipe. Address The Mayor.

Tex., Columbus—City let contract to R. E. McGill, 306 Public National Bank, Houston, for water works system. 4-21

Tex., Fort Worth—Chicago Bridge & Iron Co., 1103 Dallas National Bank Bldg., Dallas, has contract for 500,000 gal. steel tank and tower and dismantling, moving and erecting 100,000 gal. steel tank for city. 4-28

Tex., Galveston—Government, reported, let contract to Allis Chalmers Co., Milwaukee, Wis., at \$30,000 for centrifugal motor driven pump at Fort Sam Houston.

Tex., Levelland—See Sewer Constr.

Tex., Merkel—City, H. C. West, Mayor, let contract to Panhandle Construction Co., Lubbock, for water works extension, cost \$100,000; including 1900 ft. of 8-in., 11,000 ft. of 6-in. and 12,700 ft. of 2-in. pipe; will install one 100 g.p.m. piston pump and one 500 g.p.m. centrifugal pump; Hawley & Roberts, Engrs., Lubbock. 5-12

Tex., Midland—City plans improvements to water plant; receiving bids for 100,000 gal. tank on 100-ft. steel tower; install Fairbanks-Morse pump; double present capacity of reservoir; J. M. Gilmore, City Sec.

Tex., Perryton—C. L. Burt, Hutchinson, Kan., reported, has contract for storage reservoir and two 500 gal. per minute water pump.

Tex., Teague—City opens bids June 9 for extension of water works. See Want Section—Bids Asked.

Va., Clarendon—Board of Supervisors of Arlington County, reported, opens bids June 1 for reservoir near Lyonhurst.

W. Va., Parkersburg—See Sewer Construction.

Woodworking Plants

N. C., Swannanoa—Tops—Allwood Krafts, Inc., F. E. Laycock, Pres., rented 50x60 ft. building, equipment purchased. 5-12

FIRE DAMAGE

Fla., Jacksonville—Sunset Club building on Lake City Road, Jack Middleton, Propr.; loss \$40,000.

Fla., Jacksonville—Warehouse and plant of Price Brothers; office of W. E. Boone; loss \$25,000.

Fla., Ybor City—Second floor offices of Post Office Bldg., 1425½ Seventh Ave.; loss \$25,000. Address Mrs. F. Haya, 3801 Bay to Bay Blvd.

Ga., Milledgeville—Barn at Georgia State Prison; loss \$8000.

Ga., Thomson—Herbert Wren's residence.

Ky., Richmond—Stockyards buildings of A. McKnight and Clark Eversole; loss \$35,000.

La., Clarks—Portion of plant owned by Louisiana Central Lumber Co.

Miss., Hattiesburg—Shor Department

Store, Pine and Mobile Sts., owned by Judge Paul B. Johnson.

Mo., Brookfield — Methodist Church and parsonage; loss \$100,000. Address The Pastor.

Mo., Joplin—Elevator and mixing room of Boyd-Pate Grain and Milling Co., Tenth St. and Pennsylvania Ave.; loss \$50,000.

N. C., Faith—Peeler & Fraley Co. store, Fink & Son's garage and Julius Castor's store.

N. C., Gibson—Colored Methodist Church, address The Pastor, and 17 dwellings; loss \$50,000.

N. C., Greenville—Mrs. Annie Long's store at Pitt St. and Dickerson Ave.

N. C., Saluda—Saluda Towel Co., Inc., main plant, loss \$35,000.

Okla., Blackwell—Blackwell Zinc Co.'s jig mill; loss \$20,000.

Okla., Bokoshe—Gaston and Son's garage; loss \$15,000.

S. C., Darlington—M. S. Luminasky's storage house, also damaged Owen Woodward Co.'s storage house.

S. C., Greenwood—Abney Coleman's residence, Grace St.; loss \$12,000.

S. C., New Market—G. R. Milam's residence; loss \$6000.

S. C., Sumter—Monaghan Building occupied by Crane's dry goods store, Hearon's pharmacy, Cash Dry Goods store and Star Barber shop; loss \$60,000.

Tenn., Covington—Ogara Hotel building on Maple Ave.

Tenn., Knoxville—A. I. Smith's residence.

Hall's Cross Roads, 8 miles from Knoxville; loss \$20,000.

Tex., Alpine—Smelter owned by Metal Products Association.

Tex., Breckenridge—Braly's grocery and market, Charlie & Fritz's delicatessen, Rolly's cafe, Sullin's auto and machine shop; loss \$30,000.

Tex., Dallas—Building occupied by Second Avenue Pharmacy, Sunshine Grocery and Metropolis Lodge No. 378, I. O. O. F.

Tex., Fort Cobb — Mrs. Thomas Kearse's building housing Avon Leigh cafe and Bill Gaboury's barber shop, Otto Wray's garage; loss \$50,000.

Tex., Houston—Warehouse of Seaport Bag Co., 1015 N. San Jacinto St.; loss \$100,000.

Tex., Houston—Seaport Bag Co.'s building, 1015 N. San Jacinto St.; loss \$60,000; Harry Redman, Pres.

Tex., Junction—Chamber of Commerce and other buildings; loss \$50,000.

Tex., Lockhart—Major Walter W. Cardwell's barn; loss \$20,000.

Tex., Orange — Joe. Salvage building at Park Ave. and Fourth St.; loss \$10,000.

Tex., Quanah—Horace Mann school building; loss \$15,000; address School Board.

Tex., Ralls—Farmers Gin; loss \$22,000.

Tex., San Antonio—Building at S. Medina and Matamoras St. owned by Southern Ice and Cold Storage Co.

Tex., Vernon—Motor Supply Co.'s building: Mrs. G. M. Stroud's cafe and E. V. Clure's garage and top shop; loss \$10,000.

Va., Tasley — John Colona's residence and adjoining bldgs.; loss \$10,000.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ark., Pine Bluff—Sahara Temple, A. A. O. N. M. S., will install \$5000 loud speaker system and \$10,000 electric elevator in \$325,000 mosque nearing completion; Mitchell Seligman, Archt., 206 Pine St., Pine Bluff; Stewart-McGehee Construction Co., Contr., Kahn Bldg., Little Rock.*

Tex., Amarillo—Salvation Army, Bill Fleniken, Chmn., Bldg. Comm., having plans for \$50,000 building drawn by Sheppard & Wiser, Amarillo Bldg.

Tex., Fort Worth—Benevolent Protective Order of Elks, W. Seventh and Lamar Sts., erect \$150,000 lodge building, Fourth and Burnet Sts.; probably ask for bids within few days on 4-and 5-story structure; 73x79 ft.; gymnasium, dining room, kitchen, etc., in basement, lodge room, dance floor, 3 parlors and dressing room for women on second, living quarters above; Wyatt C. Hedrick, Archt., First Nat. Bank Bldg. 4-28

Tex., Raymondville—American Legion plans 2-story Mission type tile and stucco clubhouse; Geo. Commins, Archt.

Bank and Office

D. C., Washington—Merchants Bank and Trust Co., Peter A. Drury, Pres., enlarge banking quarters, 15th and H Sts. N. W.; B. Stanley marble stairway, mezzanine providing 2000 sq. ft. additional floor space; B. Stanley Simmons, Archt., 1722 H St. N. W.; probably let contract in 10 days.

Ga., Atlanta — Alfriend Estate, Majestic Bldg., reported, remodel old Majestic Hotel for offices.

Ga., Hahira—Greer & Biggers, Archts., 121 W. Adams St., Valdosta, advise erection brick building for Bank of Hahira postponed until Sept. 5-12

Ky., Covington — Drs. J. D. and E. W. Northcutt erect \$50,000 Doctors' Bldg., Seventh and Scott Sts.; pressed brick and terra cotta, 4 stories; stores on first floor; hospital in section; doctors' and dentists' offices; Alfred B. Dailey, Archt.; Northcutt Brothers Co., Contrs.

La., New Orleans—Elias Pailet, 2302 Prytania St., erect 2-story brick, steel and white tile trim building, Gravier and Dryades Sts., for bank, homestead associations and offices; site 59x60 ft.; A. S. Montz, Archt., 740 Poydras St.; work start about 60

Miss., Brookhaven—Following contractors estimating on alterations and additions to

First National Bank, bids opened May 30: W. L. Rutter, P. J. Allgood; L. C. McDermott, all Brookhaven; Geary-Oakes Co., Inc.; plans by Charles Wenar & Co., Equipment Engrs., Marine Bank, Bldg.; B. S. Merrill, Constl. Engr., 511 Hibernia Bldg., all New Orleans, La. 5-19

N. C., Burlington—M. B. Smith erect fire-proof office building, Piedmont Heights; 32x50 ft.

Okla., Buffalo—Selman State Bank, J. O. Selman, Pres., considers building; brick veneer and tile, plate glass front.

Okla., Cheyenne—First State Bank erect \$15,000 building; brick and stone, 1 story and basement, 25x70 ft.; Harry Reynolds, Archt., Mercantile Bldg., Oklahoma City.

Tenn., Bemberg, P. O. Elizabethton—American Bemberg Corp., Dr. A. Motwurff, Pres., 65 Madison Ave., New York, reported, plans administration building.

Tex., San Angelo—Central National Bank remodel and enlarge banking quarters; cost \$16,000; install Herring-Hall-Marvin night depository vault, 1000-box safety deposit vault, filing vault.

Churches

Ala., Birmingham—Mt. Vernon Methodist Church, R. M. Johnson, Chmn. Bldg. Comm., 24th St. and 34th Ave., having plans drawn by Brodie & Shumann, Age-Herald Bldg., for auditorium and remodeling Sunday school; cost \$100,000. 5-5

Ala., Birmingham — Trinity Methodist Church, Rev. R. E. Tyler, Pastor, erect building.

Ala., Mobile—Spring Hill Avenue M. E. Church, South, Rev. Ernest A. Childs, Pastor, receives bids May 25 for brick and stone auditorium; 1 story, balcony and basement slate roof, seat 500; Brodie & Sherman, Archts., Age-Herald Bldg., Birmingham. 5-12

Ala., Montgomery—Agudath Israel Congregation, Jake Aronov, Chmn. Bldg. Comm., probably start work in June on \$35,000 synagogue, High and McDonough Sts.; buff Cardova brick, and hollow tile, Alabama stone trim, red tile roof, auditorium and balcony seat 350; community center section 2 stories and basement, auditorium seat 300, stage; Harry I. Hirsch, Archt., 629 S. McDonough St. 2-24

Ala., York—F. I. Derby is financing frame church: 1 story, 40x80 ft., composition roof; P. J. Krouse, Archt., M. & W. Bldg., Meridian, Miss.

Fla., Chipley — Methodist Church, W. T. Laney, Chmn., erect brick Sunday school; 2 stories, 80x60 ft.; Warren, Knight & Davis and Chandler C. Yonge, Asso. Archts., 1603 Empire Bldg., Birmingham, Ala., and Amer. Nat. Bank Bldg., Pensacola, Fla.

Fla., Coral Gables, Miami—Roman Catholic Church of Little Flower, Rev. Thos. Comber, Pastor, probably have plans completed in about 1 month by Gerald Barry, Barnett Bank Bldg., Jacksonville, for combination clubhouse and auditorium as first unit of \$500,000 group; Spanish Mission type, stucco; main auditorium and 1-story rectory later. 5-19

Fla., Ortega—St. Mary's P. E. Church, reported, erect \$100,000 building. Address The Pastor.

Fla., Panama City—First Baptist Church plans to resume work on \$80,000 building. Address The Pastor.

Fla., Panama City—Presbyterian Church erect \$10,000 building. Address The Pastor.

Fla., St. Augustine—Cathedral Congregation, Rev. P. J. McGill, Pastor, receives bids June 3 for Cathedral Lyceum Bldg., St. George St.; auditorium seating about 900, assembly hall, gymnasium.

Ga., Augusta—Trinity M. E. Church on the Hill plans building, McDowell and Monte Sano Sts.

Ga., Baxley—Methodist Church erect brick church and Sunday school; Daniell & Beutell, Archts., Healey Bldg., Atlanta.

Ga., Savannah—Ascension Lutheran Church plans Sunday school, Drayton St. Address The Pastor.

Ga., Sparta—Methodist Church, Geo. Berry, Chmn. Bldg. Comm., receives bids May 30 on brick veneer building; cost \$30,000, hollow tile walls, wood cornices, cast stone ornament, tin roof, 2 stories; plans from Willis Irvin, Archt., Southern Finance Bldg., Augusta. 4-14

La., Alexandria—First M. E. Church, South, receives bids May 27 (lately noted May 18) for \$80,000 Sunday school; C. Errol Barron, Archt., Haas Bldg.; following contractors estimating; Sandquist & Snow; W. T. Calhoun; R. L. Roland, all Alexandria; E. E. Rabalais, Bunkie; P. Olivier & Son, 114 Bilbey St.; Knappe & East, Kaufman Bldg., both Lake Charles; Caldwell Bros., New Orleans; W. G. Butler, Shreveport; A. C. Stewart, Baton Rouge, La.; J. H. Reddick, Fort Smith, Ark.; Hardy Construction Co., Texarkana Tex. 5-12

Ga., Thomasville—First Baptist Church, M. H. Goodwin, Chmn. Bldg. Comm., plans \$75,000 building; brick, steel and concrete, 2 or 3 stories, about 75x150 ft., wood and cement floors, concrete foundation; furnishings, equipment, etc., \$10,000; architect not selected; work start about 4 months. 5-19

La., New Orleans—Temple Sinai Congregation, Jacob Bloom, Chmn. Bldg. Comm., receives bids May 26 (extended date) for \$250,000 synagogue; Emile Weil, Inc., Hibernia Bank Bldg., Moise H. Goldstein, Hibernia Bldg., and Weiss, Dreyfous & Seiferth, Maison Blanche Bldg., Asso. Archts.; plans from office Emile Weil, Inc. 5-5

Md., Baltimore—Whitcoat Enworth Methodist Church, Colored. Rev. M. J. Naylor, Pastor, 428 N. Pine St., erect building, site present structure, Franklin and Pine Sts.

Mo., Hawk Point—Wenceslaus Sweene R. C. Church take bids June 1 for brick and hollow tile building; cost \$15,000, 1 story, 34x60 ft., asbestos and cement roof, yellow pine interior finish and floors, hot air heat; Ludwig Abt, Archt., Riegel Bldg., Moberly.

Mo., New Florence—Methodist Episcopal Church, South, Alfred Devault, member, erect \$12,000 tile building.

Mo., Sedalia—St. Paul's Lutheran Church, Rev. H. H. Heidbreder, Pastor, erect brick building, Fifth and Lafayette Sts.; 1 story and basement, 40x60 ft.; Theo. Steinmeyer, Archt., 710 Int. Life Bldg., St. Louis, Mo.; receiving bids.

Mo., St. Louis—St. Marks Lutheran Church, Colored, erect brick building, McDonald and Arthur Sts.; 1 story and basement, 24x58 ft., concrete foundation, asphalt shingle roof, struct. steel, cut stone, stucco, hot-air heat; Theo. Steinmeyer, Archt., 710 Int. Life Bldg., St. Louis, Mo.; receiving bids.

Mo., St. Louis—Christ the King, new Roman Catholic Parish, Rev. Daniel J. Ryan, Pastor, 7117 Amherst Ave., University City, purchased site, Purdue and Balsam Aves., Shadyside Heights, for church, school and rectory.

N. C., Leaksville—Moravian Church plans building. Address J. L. McConnell, Sec., Leaksville Y. M. C. A.

Okla., Chandler—Christian Church, Rev. Mr. Mathis, Pastor, erect \$16,000 building: brick and stone, 1 story and basement; Sorey

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

& Vahlberg, Archt., Braniff Bldg., Oklahoma City; probably soon take bids.

Okla., Okmulgee—First Baptist Church erect \$85,000 Sunday school. Address The Pastor.

Okla., Perry—Baptist Church, Rev. Chas. Hanson, Pastor, plans \$20,000 building; Butler Co., Archt., Hersk Bldg., Oklahoma City.

Okla., Sulphur—Christian Church, C. M. Mays, Chmn., Bldg. Comm., have plans ready for bids about June 5 on building; cost \$25,000.

S. C., Anderson—St. Johns Church remodel and erect addition to Sunday school; cost \$30,000. Address The Pastor.

S. C., Batesburg—First Baptist Church, W. O. Young, Chmn., Bldg. Comm., receives bids May 30 for Sunday school; plans and specifications from Jas. B. Urquhart, Archt., 605 Palmetto Bldg., Columbia.

Tenn., Memphis—Cumberland Presbyterian Church, Rev. C. B. Matlock, Pastor, remodel and erect addition to building, 932-34 Linden Ave.; brick and stone, 2 stories, 40x60 ft., cost about \$22,000; J. Frazer Smith & H. M. Burnham, Archts., Goodwyn Inst. Bldg.; plans complete.

Tenn., Nashville—St. Paul's Lutheran Church, Eighth Ave., N., and Garfield St., erect parish house. Address The Pastor.

Tenn., Sparta—Church of Christ, Elder Jos. Netherland, Pastor, erect \$25,000 brick building after plans by Ofung & Nevins, 316 Ind. Life Bldg., Nashville; bids in.

Tenn., Union City—Cumberland Presbyterian Church erect \$40,000 building after plans by E. M. Tisdale, Woodmont Blvd., Nashville; bids in; heating and plumbing to Sanitary Plumbing Co., Jackson, \$4000.

Tex., Cameron—Roman Catholic Church, Rev. Geo. Apel, Pastor, erect \$30,000 building; brick, concrete, stone trim, 1 story; Leo M. J. Dielmann, Archt., 306 E. Commerce St., San Antonio; plans ready about May 28.

Tex., Dallas—Lakewood M. E. Church, South, Dr. Wilds S. DuBoise, Pastor, plans \$75,000 building, Llano St. and old Greenville Rd.; probably convert present structure for parsonage; Mediterranean type, hollow tile and brick, Ferrand & Fitch, Archts., Slaughter Bldg.

Tex., Houston—North Side Methodist Church erect \$45,000 superstructure, Loraine and Cochran Sts.; basement in; A. C. Finn, Archt., Bankers Mortgage Bldg.; W. E. Woodruff, Contr., Larendon Bldg.

Tex., San Antonio—Evangelical Friedens Church, Rev. J. O. Polster, Pastor, erect \$40,000 building, Kendall and Myrtle Sts.; brick, concrete and hollow tile, 1 story and basement; Will N. Noonan Co., Archt., Bldrs. Exchange; ready for bids about May 28.

Tex., San Antonio—Calvary Baptist Church, Hays and Pine Sts., has low bid at \$12,148 from G. W. Mitchell for remodeling interior and placing new roof; Will N. Noonan Co., Archt., both Builders Exchange Bldg.

Tex., Victoria—Mission Dolores plans rectory. Address The Pastor.

W. Va., Fairmont—First Baptist Church, Rev. W. J. Eddy, Pastor, considers building.

City and County

Fla., Chipley—Washington County voted to remove county seat from Vernon to Chipley; plans courthouse. Address County Commissioners.

Fla., Fort Lauderdale—City receives bids June 13 for fire station, Palm Ave. and N. W. Second St.; rein. concrete foundation and frame, tile walls, 1 story, terrazzo floors, tile roof, cost \$14,000; address City Mgr., care Francis L. Abreu, Archt., Bryan Arcade, See Want Section—Building Materials and Equipment.

Fla., Jacksonville—City Commission, Frank H. Owen, Chmn., may enlarge city hall.

La., Shreveport—Caddo Parish Police Jury, John M. Sentell, Pres., probably open bids within 30 days for furniture and fixtures for \$1,000,000 courthouse under construction; Edw. F. Neild, Archt., 1206 City Bank Bldg.; Glassell-Wilson Co., Inc., Contr., Sinclair Bldg.

Md., Salisbury—L. Thos. Parker, Mayor, and City Council receives bids May 30 for superstructure for fire engine house; plans and specifications from E. J. C. Parsons, City Clk.; basement and first floor contract previously let.

Miss., Ellisville—City considers fire station. Address City Clerk.

Mo., St. Louis—Board of Public Service, E. R. Kinsey, Pres., receives bids May 31

for Municipal Service Bldg., 12th and Clark Sts.; cost \$900,000, rein. concrete, 3 and 4 stories, 275.6x281 ft., tile, concrete and rubber floors, concrete foundation, composition roof; garage and repair shop, firemen's training school, boiler house and transformer room; Study & Farrar, Archts., 1387 Arcade Bldg.; Martin Engineering Co., Engrs., Syndicate Trust Bldg. Address Dept. of Public Utilities, City Hall.

Okla., Muskogee—Muskogee County votes July 12 on \$350,000 courthouse bonds; County Commission ready for sketches from architects.

Tenn., Knoxville—City Council considers converting Commerce Ave. fire station for police headquarters-jail building, erecting fire station contiguous to Locust St. and Western Ave., and expanding municipal market.

Tex., Beaumont—City erect \$85,000 central fire station; rein. concrete, brick, stone trim, 2 stories; Livesay & Wiedemann, Archts., San Jacinto Life Bldg.; McDaniel Bros., low general bid at \$79,983; heating and plumbing, A. J. Coburn, \$11,903; electrical work, Thompson-Lockhart Co., \$5900.

Tex., Kermit—Winkler County, S. M. Haley, County Judge, probably soon issue warrants for jail, etc.; total cost about \$60,000.

Tex., Harlingen—City having plans drawn by Birger A. Elwing and Lloyd E. Mellor, Asso. Archts., for \$100,000 municipal auditorium; reinforced concrete and stucco, 140x140 ft.

Tex., McKinney—Collin County Board of Commrs., A. M. Wolford, County Judge, selected Sparger & Peters, Bonham, as architects for remodeling and additional story to courthouse; brick, stone and concrete, new equipment.

Tex., San Angelo—Tom Green County, J. T. Mathison, County Judge, votes June 11 on \$294,000 bonds for courthouse and courthouse furniture; Anton F. Korn, Jr., Archt., Thomas Bldg., Dallas; B. M. Morgan, Constr. Engr.

Tex., Waco—City erect \$22,000 building for offices of Waco City Waterworks, H. H. Deaton, Supt.

Dwellings

Ala., Birmingham—E. C. Barnett erect \$20,000 residence, 17th Ave., S., near 21st St.; brick veneer, 2 stories, 15 rooms.

Ala., Mobile—Mrs. Max Weiller erect residence, West Mobile Terrace.

Ala., Mobile—Mrs. Oscar Payer erect residence, West Mobile Terrace.

Ark., Fort Smith—Dr. C. E. Moulton erect \$12,000 residence and garage, Adelaide Ave.; frame and brick veneer, 2 stories and basement, 41x31 ft., composition shingle roof, hot air heat; Haralson & Nelson, Archts., all Merchants Nat. Bank Bldg.

Ark., Hot Springs National Park—H. Fellheimer, 404 Central Ave., erect brick veneer and stucco residence, 600 block Quapaw Ave.; 1½ stories and basement, composition shingle roof, oak floors, tile bath, garage; Sanders & Ginochio, Archts., Hall Bldg., Little Rock; bids in.

Ark., Little Rock—Abner McGheen, 2210 State St., erect stone and stucco residence, Pulaski Heights; 2 stories and basement, 33x48 ft., tile roof, oak floors, tile bath; vapor heat; Thos. Harding, Archt., Exchange Bank Bldg.; bids in.

Ark., Lonoake—John Bransford erect brick veneer and half-timber residence; 1½ stories and basement, about 88x57 ft., oak floors, metal roof, tile baths, garage; John P. Almand, Archt., Boyle Bldg., Little Rock.

D. C., Washington—Edwin Jacobsen erect 2 frame dwellings, 3514-18 Quesada St. N. W.; 2 stories; total cost \$15,000.

D. C., Washington—Curtis Martin, 714 Fourth St. S. E., erect brick and tile residence, 3254 Patterson St. N. W.; 2 stories; cost about \$10,000.

D. C., Washington—Little & Marshall, 1206 18th St. N. W., erect 2 brick dwellings, 322-24 Rittenhouse St. N. W.; 2 stories; total cost \$13,000.

D. C., Washington—D. C. Gruver, 927 15th St. N. W., erect 8 brick and tile dwellings, 3818-32 Beecher St. N. W.; 2 stories; total cost \$40,000.

D. C., Washington—Mrs. L. McD. Browne, 3408 Lowell St. N. E., erect \$15,000 residence, 3434 Lowell St. N. W.; frame, 2 stories.

D. C., Washington—McConchie & Holmes erect 2 brick and tile dwellings, 500-02 Peabody St. N. W.; 2 stories; total cost \$10,000.

D. C., Washington—Aurora Hills Homes,

Manufacturers Record

Inc., 1015 15th St. N. W., erect \$10,400 dwelling and garage, 6202 Piney Branch Rd. N. W.; 1 story, brick.

D. C., Washington—J. F. Mills, 201 49th St. N. E., erect 10 brick dwellings, 748-63 Twentieth St. N. E.; 2 stories; total cost \$48,000.

D. C., Washington—Idella B. Taylor erect \$16,000 brick and tile residence and garage, 1610 Buchanan St. N. W.; 2 stories.

D. C., Washington—Aaron P. Townsend erect 6 brick dwellings, 1808-18 Rosedale St. N. E.; 2 stories; total cost \$19,500.

Fla., Miami—L. K. Cone, 479 N. E. 30th St., erect \$36,000 residence and \$15,000 garage; concrete and cement, 2 stories, 3 baths.

Fla., Miami—Jos. H. Adams, 1325 Albermarle Rd., New York, erect \$100,000 addition to residence, Belle Isle; also erect laboratory and studio building.

Fla., Miami Beach—Roy G. Routhahn, 1718 Bay Rd., erect \$10,000 residence, 3521 Indian Creek Drive.

Fla., Miami Beach—F. O. Watts, Pres., First Nat. Bank, St. Louis, Mo., purchased dwelling, 2444 Prairie Ave.; erect addition.

Fla., Pensacola—C. H. Walker Lumber Co., N. Tarragona St., erect 2 dwellings, 16th Ave. and Brainard St.; total cost about \$10,000.

Fla., Tampa—C. T. Ansley, 1916 Dekle Ave., erect \$35,000 residence, S. Newport St.

Ga., Atlanta—Dr. A. H. Dellinger erect brick veneer residence, Sherwood Rd.; cost about \$10,000.

Ga., Atlanta—J. W. Kreis, Archt., care Robert & Co., Bona Allen Bldg., advises \$30,000 residence project for C. L. Emerson definitely abandoned.

Ga., Atlanta—C. E. Miller, Atlanta Trust Bldg., erect \$12,000 brick residence, Linwood Ave.

Ga., Atlanta—Dr. Charles M. Mashburn, 139 Forrest Ave., erect \$25,000 brick residence; 2 stories; Ivey & Crook, Archts., Candler Bldg.

Ga., Atlanta—Jas. Shepherd, Bona Allen Bldg., erect \$12,000 brick residence, Bridgecrest Rd.

Ga., Augusta—M. C. Hutto, Owner, Hutto Engineering Co., 515 Lycester Rd., Detroit, Mich., erect residence, Milledgeville Rd., near 7-mile post; construct fishing and bathing pond.

Ga., Augusta—J. T. Shannahan, Jr., East Aurora, N. Y., purchased dwelling, Walton Way; probably expend \$7500 to \$10,000 for improvements.

Ga., Macon—City Realty Co., 565 Mulberry St., erect 9 dwellings, 3100 and 3500 blocks, Houston Ave.; total cost \$41,000.

Ga., Macon—H. C. Collins, 232 High St., erect 6 room residence, Forsyth Circle; cost about \$10,000.

Ga., Tybee—Dr. Raymond Harris, 19 E. Gordon St., Savannah, erect 8 bungalows, Ninth St. near Butler Ave.

Ky., Louisville—A. D. Reynolds, 2085 Douglas Bldg., erect \$100,000 residence, Spring Drive and Cherokee Rd.; 100x11 ft., hardwood floors over concrete, fireproof; M. J. Murphy, Archt., 1020 Bardstown Rd.

La., New Orleans—P. J. Porter, 1618 Frenchmen St., erect 3 double cottages, 2432-42 Bourbon St.; 24x65 ft., composition roofs; total cost about \$10,000.

Md., Baltimore—Lawrence Yakel, Belna and Charles St. Ave., erect residence, Monroeville Ave. near Charles Street Ave.

Md., Baltimore—Wm. McHenry Keyser, Keyser Bldg., erect \$10,000 hollow tile and stucco residence, Taplow Rd. and Tilbury Way; 2 stories.

Md., Baltimore—A. E. Walden, Continental Bldg., plans residence, Murdoch Road, Anneslie.

Md., Baltimore—Walter E. Wellmer, 1300 Longwood St., plans residence, Anneslie Rd., Anneslie.

Md., Baltimore—Thos. Mullan, 3945 Greenmount Ave., erect 62 brick dwellings, 1200, 1300 and 1400 blocks W. 37th St.; 2 stories; total cost \$180,000.

Miss., Amory—H. P. Bentley erect face brick veneer residence; 1 story, 5 rooms, shingle roof, hardwood floors; Ye Planry, Inc., Archts., 1713½ Live Oak St., Dallas, Texas.

Miss., Brookhaven—V. D. Youngblood erect face brick veneer residence; 1 story, 6 rooms, asbestos shingle roof, hardwood floors, tile bath; Ye Planry, Inc., Archts., 1713½ Live Oak St., Dallas, Tex.; plans complete.

Miss., Iuka—Robt. W. Carter erect face

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

brick veneer residence; 1 story, 6 rooms, shingle roof, pine and oak floors, tile bath; Ye Planry, Inc., Archts., 1713½ Live Oak St., Dallas, Tex.; plans complete.

Mo., Clayton, St. Louis—H. E. Wilson, 35-33 Lafayette St., erect English type brick residence, Tuscan Park, Big Bend Road; 2 stories and basement, 30x67 ft., hardwood floors, slate roof, 2 tile baths, electric refrigerator; incinerator; Jesse L. Bowling, Inc., Archt., 1198 Arcade Bldg.; soon take bids.

Mo., Columbia—R. M. Hulen, Guitar Bldg., erect \$12,000 residence, brick; 2 stories and basement, 34x41 ft.; H. S. Bill, Archt., Miller Bldg.; bids in.

Mo., Hickman Mills—Gaylon Babcock erect residence.

Mo., Joplin—Peter Braeckel, Mgr., Braeckel Planing Mill Co., 1201 Wall St., plans building, W. Sixth St.

Mo., Kansas City—Home Investment Co., 314 Commerce Bldg., erect 11 stucco dwellings, 805-45 W. 71st St.; 2 stories, 32x30 ft.; total cost \$44,000.

Mo., St. Louis—Greulich Construction, Realty and Investment Co., 3111 N. Grand Blvd., erect 10 dwellings; 1 and 2 stories.

Mo., St. Louis—F. W. Howe, care Marcel Boulecault, Archt., 719 Buder Bldg., erect brick and frame siding residence, Fair Oaks; 2 stories and basement, 27x75 ft., composition shingle roof, hardwood floors, marble and tile, hot water heat.

Mo., St. Louis—John W. Thomson, 406 Clara Ave., erect brick residence, Fair Oaks; 2 stories and basement, 75x30 ft., concrete foundation, composition shingle roof, tile and marble, hardwood floors, incinerator, hot water heat; Marcel Boulecault, Archt., 719 Buder Bldg.; bids in.

Mo., St. Louis—A. J. Woltering, 4111 Virginia Ave., soon take bids for \$12,000 brick dwelling, Holly Hills; 1 story and basement, 34x50 ft., hardwood floors, tile baths, shower, stone trim, composition roof, 5 rooms and sun porch, electric refrigerator; Gill & Jackson, Archts., 526 Buder Bldg.; soon take bids.

Mo., St. Louis—Geo. Van Riper, 4 N. Kingshighway, erect native stone residence, Fordyce Lane and Ladue Road; 2½ stories and basement, 65x47.6 ft.; Jameson & Spearl, Archts., 1116 Arcade Bldg.

Mo., Springfield—J. O. Fairbanks, 847 Sherman St., erect \$12,000 residence; Carrthage or Phenix stone, composition on shingle roof, hot air heat, oak floors, hollow tile, metal lath, refrigerator; Heckenlively & Mark, Archts., 642 Landers Bldg.

Mo., University City, St. Louis—Chas. A. Becker, Star Bldg., erect English type residence, Greenway Ave., University Hills; brick, 2 stories and basement, 40x68 ft., 3 tile baths, slate roof, hardwood floors, incinerator, electric refrigerator; Jesse L. Bowling, Inc., Archt., 1198 Arcade Bldg., St. Louis.

Mo., University City, St. Louis—F. J. Cornwell Real Estate Co., 111 N. Seventh St., erect brick dwelling, University Park; 2 stories and basement, 26x45 ft., tile bath, hardwood floors, stone foundation, vapor heat; Nolte & Nauman, Archts., 614 Fullerton Bldg.

Okla., Holdenville—Mrs. Frank Warren erect \$25,000 brick veneer residence; 2 stories and basement; Joe I. Davis, Archt., First Natl. Bldg., Oklahoma City.

S. C., Newberry—Oakland Cotton Mill considers 50 employees dwellings.

Tenn., Jackson—Dr. B. C. Arnold erect \$10,000 brick veneer and stucco residence; 1 story and basement, 50x38 ft., composition shingle roof, oak floors, tile bath, hot water heat, frame garage; John F. Parish, Archt.; plans complete.

Tenn., Lookout Mountain—Crawford Johnson, 508 S. 22nd St., Birmingham, Ala., has permit for residence.

Tenn., Memphis—E. D. Boudin, 698 Barrett Place, plans wide siding residence; 1 story, 32x26 ft., composition roof, pine floors.

Tenn., Memphis—E. E. Clark, Southern Cotton Oil Co., erect \$20,000 residence, Hein Park; 2 stories and basement, brick veneer and Stonekote, composition shingle roof, oak floors, tile bath, hot water heat, garage; Estes W. Mann, Archt., 203 Cotton Exchange Bldg.

Tenn., Memphis—Bob Ferguson, care Geo. Mahan, Jr., Archt., 700 Amer. Bank Bldg., erect brick residence; 1 story and basement, oak floors, tile bath, steam heat, garage.

Tenn., Memphis—W. J. Franks, 1719 Evelyn Ave., erect brick veneer residence; 1½

stories and basement, 49x36 ft.; composition shingle roof, oak floors, tile bath, hot water heat, frame garage.

Tenn., Memphis—Andrew J. Hays, Lumbard Place, erect wide siding residence; 2 stories and basement, 38x45 ft., composition shingle roof, oak floors, tile bath, hot water heat, garage; Estes W. Mann, Archt., 203 Cotton Exchange Bldg.; bids in.

Tenn., Memphis—Dr. Johnson, care Estes W. Mann, Archt., 203 Cotton Exchange Bldg., erect \$10,000 brick veneer residence, Buena Vista Place; 1 story and basement, 45x60 ft., composition shingle roof, oak floors, tile bath; steam heat, stone trim, metal gutters, garage.

Tenn., Memphis—H. C. Nall, 60 Madison Ave., erect brick residence, Hein Park; oak floors, tile bath, steam heat, garage; Geo. Mahan, Jr., Archt., 700 Amer. Bank Bldg.

Tenn., Memphis—M. H. Palmer, Fidelity Bank Bldg., erect brick veneer, field stone and stucco residence; 1 story and basement, 63x32 ft., composition shingle roof, oak floors, tile bath, hot water heat, garage; Polk W. Agee, Archt., 1315 Fidelity Bank Bldg.

Tenn., Memphis—W. W. Robinson, Central Ave., erect brick veneer residence; 2 stories and basement, about 56x98 ft., slate roof, oak floors, tile baths; Hunker & Cairns, Archts., Court Square Bldg.; bids in.

Tenn., Memphis—Mrs. Peter Van Vleet, Central Ave., erect \$50,000 residence, Park Road; brick, 2 stories, oak floors, tile baths, steam heat, garage and servants' quarters; Geo. Mahan, Jr., Archt., 700 Amer. Bank Bldg.

Tenn., Nashville—A. J. Sutherland, 1722 West Ave., erect brick veneer and cut stone residence, Grand Ave. and Acklin Park; limestone foundation, Reynolds, Barber or equal, composition shingle roof, wood floors, tile baths, hot air heat; Asmus & Clark, Archts., 1415-18 Nashville Tr. Bldg.; bids in.

Tex., Amarillo—C. J. Johnson erect \$31,250 residence, 2116 Harrison St.

Tex., Asherton—W. E. Wroe erect \$15,000 residence; hollow tile and stucco, 1 story, 7 rooms; Herbert S. Green, Archt., Alamo Bank Bldg., San Antonio; bids in.

Tex., Dallas—A. D. Hawley, 323 N. Waverly St., erect \$12,500 residence, 1201 Lousanne St.; 9 rooms, brick.

Tex., Fort Worth—Model Home Builders erect \$15,000 brick veneer dwellings, 3033 Alameda St.

Tex., Fort Worth—Edwin T. Phillips, Farmers and Merchants Natl. Bank, erect \$27,500 brick veneer residence, 806 Hill Crest Ave.

Tex., Houston—Geo. Ackels erect \$10,000 brick veneer residence, 1838 Marshall St.; 2 stories.

Tex., Houston—F. A. Stevens erect \$12,500 residence, 2010 Wentworth St.; brick veneer, 2 stories.

Tex., Kermit—Kermit Townsite Co., care 309 North Texas Blvd., Dallas, plans 30 dwellings; frame, 1 story, 5 and 6 rooms; total cost about \$60,000; drawing plans.

Tex., San Antonio—Dr. D. T. Atkinson, Medical Arts Bldg., erect hollow tile and stucco residence, Remount Rd., Blue Bonnet Hills; cast stone trim, tile roof, ornate iron, 2 stories, 300 ft. long, with 30-ft. wings; U shape, tile, oak and terrazzo floors, 20 rooms; bids in June 1. Address Atlee B. and Root M. Ayres, Archts., Bedell Bldg.

Tex., San Antonio—John H. Bickett, Jr., Bedell Bldg., erect 6-room residence, Elmere St.; cost about \$10,000.

Tex., San Benito—F. L. Gay erect \$15,000 residence; Spanish type, 2 stories, 8 rooms, hollow tile and stucco, concrete foundation; Harvey P. Smith, Archt., Nat. Bank of Commerce Bldg.; soon ready for bids.

Tex., San Antonio—Dr. E. R. Lochte, Medical Arts Bldg., erect \$12,000 residence, Montrose and Summit Place; concrete foundation, stone, tile roof; Harvey P. Smith, Archt., Nat. Bank of Commerce Bldg.

Tex., Wichita Falls—Mytinger & Walker, Harvey-Snider Bldg., erect 4 dwellings, 2001 Ninth, 1652 Keeler, 1819 Speedway and 1316 Seventh Sts.; total cost \$13,400.

Va., Richmond—David D. Eanes, 1216 Bellevue Ave., erect frame residence, 1224 Bellevue Ave.; cost about \$10,000; stucco garage.

Government and State

Fla., Marianna—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., receives bids June 13 for post office and courthouse; cost \$150,000; draw-

ings and specifications from Custodian at site or from office Supervising Archt.

Ga., Americus—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., receives bids June 6 for toilet room, etc., for judge's room, U. S. Post Office; drawing and specifications from Custodian at site or from office Supervising Archt.

Md., Baltimore—State plans building, Guilford Ave. and 21st St., for Department of Motor Vehicle Commission; has legislative appropriation of \$235,000 for building and site, latter to cost \$65,000; Jas. Carey Martin, Lexington Bldg., studying requirements; E. Austin Baughman, Commr., 300 St. Paul Place; probably select architect about three weeks.

N. C., Fort Bragg—Fort Bragg Memorial Chapel Committee, Prince Charles Hotel, Fayetteville, plans \$75,000 chapel and community church, Fort Bragg, after plans by Stiles S. Dixon, Nat. Bank Bldg., Fayetteville; brick and stone; furnishings, equipment, etc., \$25,000; raising funds. See Want Section—Building Materials and Equipment.

Hospitals, Sanatoriums, Etc.

Ky., Lakeland—State Board of Charities and Correction, Louisville, plans to start work at once on first unit of \$1,000,000 hospital for criminal insane; selected M. J. Murphy, 1020 Bardstown Rd., Louisville; entire structure comprises administration bldg., 60x90-ft. auditorium, 6 wings with connecting corridors, and equipment; accommodate 560 patients, 2 stories, 446x560 ft., 250x214-ft. court; first unit 100x50 ft., accommodate 65; plans completed.

La., New Orleans—Presbyterian Hospital of New Orleans, 701-39 Carondelet St., probably soon start work on office bldg., main hospital and nurses' home to cost \$1,000,000. Northern Spanish architecture, rough cut limestone; 2 large patios, ornamental gates and brick walls around structures; 230 beds in hospital building, X-ray and deep therapy depts., convalescents' solarium on each floor, maternity dept. on eighth and ninth floors, special elevators, water tank; gymnasium, etc., in nurses' quarters; mechanical equipment, laundry and general and diet kitchens; structures connected by enclosed glass arcades; Rathbone DeBuys, Archt., Hibernia Bldg.

La., Shreveport—Charity Hospital receives bids June 15 for fireproofing 3-story wing of main building; rein. concrete floors, steel frame windows, metallic roof, cost \$40,000.

Md., Cumberland—City selected Zantzinger, Borie & Medary, Otis Bldg., Philadelphia, Pa., as architects for Memorial Hospital; Dr. S. Goldwater, Consil. Archt., Mt. Sinai Hospital, New York; previously noted planning \$500,000 bond election.

Mo., Mount Vernon—Lawrence County votes July 19 on \$150,000 hospital bonds. Address County Commission.

Mo., St. Louis—City considers additions \$5,000,000 for new buildings at city hospitals and institutions in new bond issue for which Mayor Miller has formed tentative plans.

Mo., St. Louis—City remodel building at Koch Hospital for 65 additional beds and executive offices; Mr. Salisbury, Director of Public Welfare.

S. C., Spartanburg—Mary Black Clinic, Dr. H. R. Black, Prop., 369 E. Main St., erect \$50,000 addition; J. B. Simpson, Archt., Montgomery Bldg.

Tex., Amarillo—Sacred Heart R. C. Parish having plans drawn by Wyatt C. Hedrick, First Natl. Bank Bldg., Fort Worth, for \$250,000 hospital; brick, concrete and stone.

Tex., Kingsville—Kleburg County Board of Commrs., W. H. McCracken, Judge, receiving bids for concrete frame, hollow tile and stucco hospital addition; cost \$30,000, 2 stories and basement; Will N. Noonan Co., Archt., Builders Exchange, San Antonio.

Hotels and Apartments

Ala., Florence—Bailey Springs Finance Corp., care Dr. Courtney W. Shropshire, First Natl. Bank Bldg., Birmingham, plans development at Bailey Springs, include casino hotel, sanitorium, golf course, parks, etc.

Ala., Mobile—S. L. Adler erect \$40,000 apartment building on Michigan Ave., near Texas St.; 2 stories, 4 units on each floor, steam heat, incinerator, garages.

Ark., Little Rock—Board of Directors Manning Hotel Co. authorized improvements and alterations to Hotel Marion, cost \$40,000 to \$50,000.

Fla., Babson Park—Forbes Realty Co., Chas. J. Forbes, Pres., erect 8 additional cottages for hotel purposes; \$50,000; Mr. Forbes also

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

Manufacturers Record

Archt. See Want Section—Building Materials and Equipment.

Fla., Fort Lauderdale—J. G. Gates plans \$20,000, reinforced concrete and tile, 30-room hotel building.

Ga., Atlanta—Fitzhugh Knox & Sons, 215 Peachtree St., reported, planning \$200,000 apartment building on Piedmont Road.

Ga., Atlanta—William K. Jenkins, 1968 Peachtree Rd., erect \$25,000, 2-story, brick veneer apartment house at 806 Jackson St. N. E.; 12 units of 4 rooms and bath each.

Ga., Atlanta—E. F. Culpepper erect two 2-story, brick veneer apartment houses, 1111-15 Briarcliff Road.

Ga., Valdosta—W. L. Holder erect \$15,000 hollow tile and concrete, duplex apartment house, N. Toombs and Jane Sts.

Ky., Louisville—Morris Margolin, 2100 Baringer St., erect \$10,000, brick and tile apartment building, 1320 Barret St.

La., Lafayette—William A. Hoefgen, 1617 Foucher St., New Orleans, La., promoting construction of \$250,000 to \$300,000 hotel building on property owned by City, at Polk and E. Vermillion Sts.

La., New Orleans—Joseph Paillet, 437 S. Rampart St., plans converting mansion at 1809 Napoleon Ave., into apartment building; soon select architect.

Mo., Columbia—Proctor Brothers erect hotel and tourist camp at junction of Highways Nos. 40 and 63.

Mo., St. Charles—St. Charles Hotel Co., Inc., E. F. Hunker, Pres., receives bids until June 10 for \$150,000, 70x112-ft., 4-story hotel building, N. W. cor. Second and Washington Sts.; matt brick and terra cotta exterior, casement sash, concrete construction: concrete foundation, concrete, terrazzo and Duro tread flooring, Barrett roof; elevator equipment to Elevator Co. of America; address proposals to Manske & Bartling, Inc., Archts., 410 N. Euclid Ave., St. Louis; address equipment proposals to George S. Jackson & Co., 1128 Boatman Bank Bldg., St. Louis. See Want Section—Building Materials and Equipment. 5-19

Mo., St. Charles—St. Charles Hotel Co., E. F. Hunker, Pres., approved plans by Manske & Bartling, Inc., 410 N. Euclid Blvd., St. Louis, for \$150,000, 3-story, fireproof, brick and terra cotta, 114x71 ft. hotel building, N. W. cor. Second and Washington Sts.; 50 rooms all with bath, form "L," first floor have lobby, main dining hall, private dining rooms, coffee shop, kitchen and shops. 5-19

N. C., Greensboro—F. A. Hyatt, 309 Blandwood Ave., erect \$14,000, 2-story, 16-room, brick veneer apartment house on Oak Court.

N. C., Henderson—J. H. Brodie has offered to donate property, would like to hear from parties interested in construction of hotel building. 5-5

N. C., Winston-Salem—J. R. Smith, 3004 Henrietta St., erect \$25,500, 20-room apartment building on Hawthorne Rd.

Tenn., Chattanooga—Jack Montgomery, 510 E. Fifth St., and H. D. Robinson erect \$20,000, 3-story, six 4-room apartment house on E. Fifth St.

Tenn., Chattanooga—John C. Twinam erect apartment building on Walnut St. between Third and Fourth Sts.

Tenn., Memphis—Peerless Development Co., F. C. Storey, 516 Dermon Bldg., erect two 2-story, brick veneer, \$90,000, 60x123 ft. apartment buildings, 1308 Overton Park Ave. and 412 Claybrook St.

Tenn., Springfield—B. N. Stammer purchased Colonial Hotel, plans improvements.

Tex., Dallas—La Salle Corp., care W. A. Cooke, Archt., 708 Wilson Bldg., soon complete plans for \$700,000, 10-story and 80-ft. high, reinforced concrete, 112x140-ft., fireproof apartment building; tile and tar and gravel roof, concrete floors and foundation, stone trim, steam heat, refrigeration; Gardner & Howe, Engrs., Kirby Bldg. See Want Section—Building Materials and Equipment. 5-19

Tex., Dallas—C. M. Abbott, Athletic Bldg., erect \$10,000, 12-room, brick veneer, 2-apartment house at 4116-18 Hawthorne St.

Tex., Fort Worth—A. B. Elkins, 112 W. Hattie St., erect \$10,000, brick veneer apartment house at 3420 Camp Bowie Blvd.

Tex., Houston—H. S. Bates, 1301 Waugh Drive, erect \$20,000, 2-story, 8-apartment building, Eastwood addition; brick veneer, 3 rooms and bath each, garages. 5-19

Tex., Houston—C. C. Bell, 3511 McKinney Ave., has plans in progress by Sol R. Slaughter, 3511 McKinney Ave., for \$75,000, 3-story, brick and concrete, 75x125 ft. apartment hotel building. 5-19

Tex., Laredo—E. Garcia receiving bids by invitation, to be opened June 6, for 2-story, 8-suite, concrete, brick, stucco, steel and cast

stone San Jose Apartments; Kelwood Co., Archt., Travis Bldg., San Antonio.

Tex., Mineral Wells—Carr P. Collins, Pres. of Crazy Water Hotel Co., announced plans for 100-room hotel building.

Tex., Mission—Hays-Sammons Lumber Co. erect apartment building, cost about \$25,000.

Tex., Mission—James A. Gillett erect \$25,000, 2-story, 85x75 ft., brick, 9-apartment building.

Tex., Nacogdoches—Chamber of Commerce Committee signed contract with Hockenberry System, Inc., Harrisburg, Pa., to make survey of hotel facilities and needs.

Tex., Quanah—Joe L. Dossett planning to erect \$155,000, 4-story hotel building, west side courthouse square.

Va., Portsmouth—C. M. Baylor erect \$50,000, 3-story, brick, 12-family apartment building, Ann and Hatton Sts.

W. Va., Huntington—Central Realty Co. took over operation of Frederick Hotel Co., plans improvements to building.

Miscellaneous

D. C., Washington—Presbyterian Home of the District of Columbia erect \$38,000, brick and tile addition to home building, 1810 Newton St. N. W.

Fla., Hollywood—Hollywood Woman's Club erect club building on Filmore St., first unit cost \$6000; Barney Sutton, Archt. direct 5-12

Fla., Miami Beach—Miami Beach Bath Club plans to start work in 30 days on clubhouse, on ocean front.

Fla., Tampa—Wayland Rupert, Vandergrift Bldg., Pittsburgh, Pa., heading Pittsburgh interests, let contract to System Construction Co. for 102x103-ft. public sanitary market, S. E. cor. Zack and Pierce Sts.; ornamental Spanish design, stucco, cut stone and hollow tile, reinforced with steel; F. M. Klabbek. Mgr.

Ga., Macon—C. H. Hutchings & Son, 510 Cotton Ave., erect \$10,000 undertaking building at 516-18 New St.

Tex., Amarillo—Harding Ranch Amusement Co., Jack Taggett, converting Harding Ranch near Amarillo, into recreation park at cost of \$75,000 to \$100,000; include dancing pavilion, dining room and kitchen, 20 cottages, etc.

Tex., Houston—Woman's Club, Mrs. C. A. Teagle, Pres., Union Natl. Bank Bldg., purchased 2-story, stucco building on Stratford St., will remodel.

Tex., Houston—L. L. Harris, 709 Avondale St., Simon Sakowitz, 920 Lovett Blvd., Ben M. and Robt. J. Levy, heading syndicate, purchased property on Westheimer Road, erect clubhouse, first unit to cost \$25,000; also build 18-hole golf course.

Tex., Somerset—Women's Club planning to erect clubhouse.

Va., Arlington—Columbia Investment Co., care John J. Clarkson, plans community house.

Railway Stations, Sheds, Etc.

Fla., Mount Dora—Atlantic Coast Line Railway Co., J. E. Willoughby, Ch. Engr., Wilmington, N. C., planning to erect new depot.

Schools

Ala., Birmingham—Birmingham-Southern College tearing down Owen Hall; replace with \$250,000 Munger administration and auditorium building.

Ark., Arkadelphia—Board of Trustees of Ouachita College appointed Arthur Vestal and B. Meador, Arkadelphia, and C. H. Moses, Little Rock, as committee to finance erection of \$75,000 science building.

Ark., Conway—School Board has plans in progress by Earl Hawkins, McDaniel Bldg., Springfield, Mo., for \$17,000, 2-story, brick school building; include gymnasium and auditorium seating 500.

D. C., Washington—Georgetown University, Charles W. Lyons, S. J., Pres., announced plans to establish medical center; erect 5-story building to house medical and dental departments.

D. C., Washington—District Commissioners, Room 509 District Bldg., receives bids June 3 for 4-room addition to Smothers School, containing 169,000 cu. ft.; proposal forms at Room 427 District Bldg.

Fla., Brandon—Brandon Special School Tax District voted \$42,000 bonds for 6-room school building; address Hillsborough County Board of Public Instruction, Tampa. 4-21

Fla., Clearwater—Pinellas County Board of Public Instruction receives bids until June

7 for erecting 54th Ave. Grammar School and Norwood Addition, in District No. 7, Lealman, and Child's Park Addition in District No. 12, Gulfport; plans and specifications from office Supt. of Public Instruction, and Fred Guy, Archt., 549 First Ave. N., St. Petersburg; also receive bids at same time for electrical work and trim hardware.

Fla., Indianstown—Martin County Board of Public Instruction, Edward Mapp, Supt., Stuart, acquired 2 city blocks for white and colored schools and 5-acre site for future agricultural school.

Fla., Jacksonville—Duval County Board of Public Instruction, G. Wilbur, Supt., considering sites for consolidated schools at Mayport and Wesconnett.

Fla., Wauchula—Lemon Grove School District voted \$45,000 bonds for 6-classroom and auditorium consolidated school building; address Hardee County Board of Public Instruction.

Ga., Adel—Adel-Sparks school district voted \$95,000 bonds, \$60,000 for building and equipping high school and remainder for erecting grammar school at Sparks and remodeling grammar school in Adel. Address Cook County Board of Education. 4-28

Ga., Hoboken—Hoboken Consolidated School District, A. M. McCool and R. M. Kelly, members Board of Trustees, call election May 28 on \$22,000 bonds for new school building.

Ga., Moultrie—City Council consider calling \$100,000 bond election for new High School building.

Ky., Danville—City voted \$90,000 bonds for new graded school on Maple Ave. and other improvements. Address School Board.

Ky., Independence—Kenton County Bd. of Education, W. V. Mills, Supt., receives bids June 4 for 12-room school building; plans and specifications from county clerk's office, office of C. C. and E. A. Weber, Archts., 1406 Ingalls Bldg., Cincinnati, Ohio, or Supt.'s home at Ryland.

La., Cameron—Cameron Parish School Board, Thos. W. McCall, Supt., receives bids June 13 for 3-room building in Hackberry school district; 4-room building in Grand Chier school district; and 2-room addition to building on Grand Lake school district.

La., New Orleans—Moise H. Goldstein, Archt., Hibernia Bank Bldg., receives bids until June 6 for 4-story, 40x80 ft., fireproof, steel and stone addition to Science Building on campus of Tulane University; following contractors invited to bid: Lionel F. Favret, Louisiana Bldg.; Jos. Fromherz, Inc., Little-Guarantee Bldg.; J. V. & R. T. Burkes, Carondelet Bldg.; George J. Glover Co., Inc., Whitney Bldg.; Gervais F. Favret, Balter Bldg.; Charles Gilbert, Balter Bldg.; O. M. Gwin Construction Co., Union Indemnity Bldg.; R. P. Farnsworth & Co., Canal-Commercial Bldg.; Gearly-Oakes Co., Inc., Queen and Crescent Bldg.; J. A. Petty & Sons, Inc., Godchaux Bldg.; John Riess, Carondelet Bldg.; C. A. D. Bayley Co., Interstate Bank Bldg.; W. Horace Williams Co., Inc., Southern Bldg., and G. E. & E. E. Reimann, Canal-Commercial Bldg. 5-12

La., New Orleans—Orleans Parish School Board, A. J. Tete, Sec., opened bids for erecting 3-story, steel, brick, terra cotta and stone trim Samuel J. Peters Boy's High School of Commerce, S. Broad St. between Baudin, S. White and Banks St.; J. A. Petty & Sons, Inc., Godchaux Bldg., low bidders at \$309,446; E. A. Christy, Supv. Archt. of Board, City Hall Annex. 4-28

Md., Charlotte Hall—Charlotte Hall School Building Committee has plans by S. Wade Callahan, 217 Woodward Bldg., Washington, D. C., for \$75,000, 3-story and basement, 170x40 ft. with wing 50x25 ft. dormitory; slate, Barrett and galvanized iron roofing, wood floors, concrete foundation; receiving bids until May 24. See Want Section—Machinery and Supplies.*

Md., Frederick—Board of School Commissioners of Frederick County, G. Lloyd Palmer, Sec., receives bids this week for new schools at Urbana and Myersville; A. A. Hileman, Archt.

Miss., Biloxi—Sacred Heart School and Academy, care Rev. Father Peter Keenan, pastor of Church of Nativity parish, raising funds to erect \$90,000, fireproof school, replace present frame structure.

Miss., Blue Mountain—Board of Trustees Palmer Consolidated School District call election June 3 on \$10,000 bonds for teachery and administration building.

Mo., Joplin—Board of Education, Dr. J. G. Barnett, Pres., receives bids May 31 for 2-room addition to East Central elementary school; Smith & Van Pelt, Archts., Joplin Natl. Bank Bldg. 5-5

Mo., Kansas City—Board of Directors of School District of Kansas City receive bids May 27 at office James B. Jackson, Sec., in

Public Library Bldg., for Edwin C. Meservey School, N. W. cor. 45th and Spruce Sts.; plans and specifications covering building at office Charles A. Smith, Archt., 800 Finance Bldg.; for mechanical work at office Nate W. Downes, Engr., Finance Bldg. 4-14

Mo., Morrisville—City voted \$25,000 bonds for new school building; address School Bd.

Mo., St. Louis—Christ The King, Roman Catholic Parish, Rev. Daniel J. Ryan, Pastor, 7117 Amherst Ave., University City; school. (See Buildings Proposed—Churches.)

Mo., Skidmore—School Board call election May 28 on \$75,000 bonds for new High School.

Mo., Waco—Town voted \$15,000 bonds for 4-classroom and gymnasium-auditorium addition to school building; G. C. Pogue, Supt. of Schools.

N. C., Asheville—Buncombe County Board of Education, A. C. Reynolds, Supt., receives bids May 30 for high school building at Oakley, on Fairview Road; shipping point Fairview, care Brown's Siding; plans and specifications from William H. Lord, Archt., 17½ Church St.

N. C., Blowing Rock—Watauga County Board of Education, Smith Hagan, Supt., Boone, planning \$32,000 consolidated school building.

N. C., Charlotte—Dr. H. L. McCrorey, Pres. of Johnson C. Smith University, announced gift of \$150,000 for \$100,000 chapel and \$50,000 gymnasium; also planning new administration building.

N. C., Charlotte—Mecklenburg County Board of Education will add 4 classrooms to Huntersville school; cost \$20,000; also considering additions to Cornelius and Long Creek buildings.

N. C., Greensboro—Board of Directors North Carolina College accepted report of Building Committee, including following improvements: Erection of Home Economics Building, \$145,000; new kitchen, cost \$100,000 with equipment; 2 new dormitories accommodate 250 students, \$300,000; construct pavements, drives and walks on campus, \$55,000; addition of west wing to Curry Building, \$90,000; named Harry Barton, Jefferson Bldg., as college Archt.

N. C., Hickory—Rutherford College, Rev. H. H. Jordan, Chmn. Board of Trustees, plans rebuilding Weaver Hall; also plans to raise \$200,000 for further enlargement.

N. C., Mount Airy—City, Mayor W. G. Snyder, votes on June 28 (postponed date) on \$50,000 school bonds. 5-19

N. C., South Mills—Camden County Board of Education, L. L. Stevens, Sec., Camden, receives bids June 6 for additions to school building; separate bids on general, heating and plumbing; plans and specifications from J. M. Kennedy, Archt., Raleigh.

N. C., Wallburg—Davidson County Board of Education, Lexington, reported, planning to enlarge school building; construct new auditorium, convert present auditorium into classrooms.

Okla., Tulsa—Board of Education, Raymond Courtney, Pres., receives bids until May 31 for \$200,000 building program providing 2 new school buildings in Rose Hill district and at Yale Ave. and 11th St.; additions to Woodrow Wilson Junior High, Grover Cleveland Junior High, John Burroughs, Springdale, Mark Twain and Celia Clinton grade schools; Lee Shumway, Archt., Alexander Bldg. 4-28

S. C., Clemson College—Clemson College, Dr. E. W. Sikes, Pres., receives bids until June 2 for \$250,000, 3-story and basement with part sub-basement building for Department of Engineering and Architecture; separate contracts for heating, plumbing and electrical work; reinforced concrete frame with brick and tile curtain walls, floors of reinforced concrete slab and metal forms, faced with texture brick and limestone trim, clay tile roof, steel trusses, metal stairs, tile, mastic and composition floors; wrought iron balconies, steel and wood sash, wood doors, gypsum block partitions, metal lath; Rudolph E. Lee, Archt. 5-5

S. C., Gaffney—Limestone College, Dr. R. C. Granberry, Pres., receives bids May 30 for 2-story, brick, 47x52.6 ft. gymnasium and swimming pool building; concrete foundation, tile, concrete and maple floors, composition roof, 1-pipe gravity steam heating; Charles C. Wilson, Archt., 1308-12 Palmetto Bldg., Columbia. 5-12

S. C., Greenville—Greenville County Board of Education soon have completed plans by William R. Ward, Jr., for \$40,000, 2-story and basement, 12-room school building for Brandon community.

Tenn., Hillsboro—Coffee County Court,

Manchester, authorized school building to accommodate 240 pupils.

Tenn., Knoxville—Board of Education, L. H. Spilman, Pres., receives bids May 31 for constructing Giffin and Claxton schools; plans and specifications from Barber & Murry, Archts., General Building.*

Tenn., Loudon—Loudon County Board of Education opened bids for new schools at Philadelphia and Huntsville and addition to Greenback school, totaling \$50,000; H. E. Rader, low bidder. 4-21

Tenn., Madisonville—Dr. A. E. Shugart, of Board of Trustees of Hiwassee school, announced plans for gymnasium building.

Tex., Brownsville—Board of Education, Brownsville Independent School District, call election June 4 on \$350,000 bonds for new High School. 5-19

Tex., Brownwood—Board of Education call \$350,000 bond election for Junior High School building; brick, stone, reinforce concrete, fireproof, stone, 2 stories and basement, auditorium seating capacity 1200, including balcony; Phelps & DeWees, Archts., 718 Gunter Bldg., San Antonio.

Tex., Corsicana—St. Patrick's Catholic Congregation, Rev. E. B. Ledvina, Pastor, plans school for boys on Calallen Road.

Tex., Crowley—Board of Education selected Voelcker & Dixon, 4 Kahn Bldg., Wichita Falls, prepare plans for \$80,000, brick and concrete High School building. 5-19

Tex., Gardendale—School Board receive bids about May 28 for \$10,000, brick and concrete school building; Henry T. Phelps, Archt., Hicks Bldg., San Antonio.

Tex., Hargill—Catholic Congregation, care Father J. Jalbert, plans \$10,000, 1-story, brick parochial school building.

Tex., Houston—William Ward Watkins, Archt., 212 Scanlan Bldg., receives bids until June 1 for erecting, plumbing, heating and electric contracts for Robert and Agnes Cohen House, at William M. Rice Institute.*

Tex., Odem—Odem School District voted \$65,000 bonds for new school building. Address Board of Trustees.

Tex., Prescott—Board of Education selected Voelcker & Dixon, 4 Kahn Bldg., Wichita Falls, prepare plans for \$40,000, brick and concrete school.

Tex., San Benito—Board of Education soon have completed plans by Harvey P. Smith, Natl. Bank of Commerce Bldg., San Antonio, for remodeling interior and stuccoing interior of High School building for Junior High School; \$10,000.

Tex., Sinton—Board of Education, W. E. Halsley, Pres., receives bids May 31 for 1-story, 240x133-ft., brick, hollow tile, reinforced concrete High School and auditorium; Page Brothers, Archts., Austin Natl. Bank Natl. Bank Bldg., Austin. 4-28

Tex., Texarkana—Board of Education, Will Steele, Pres., receives bids June 1 for \$12,000, 4-classroom addition to Fairview School; Witt, Seibert & Halsey, Archts., Texarkana Natl. Bank Bldg.

Tex., Uvalde—Board of Education probably call bond election for \$100,000, fireproof school building.

Va., Danville—Averett Baptist College Board of Trustees planning to erect \$100,000 wing providing dormitory space and quarters for science and music departments; also residence for President.

Va., Virginia—Halifax County Board of Education, B. W. Leigh, Halifax, plans to erect \$10,000, 1-story, brick, steel sash, 55x85 ft. school building; wood floors, concrete foundation, tin roof, equipment and furnishings cost \$2000. See Want Section—Building Materials and Equipment. 5-19

Va., Yorktown—Nelson District voted \$10,000 bonds for new school building; address York County Board of Education.

Stores

Ala., Haleyville—Bonds Brothers plan to erect \$15,000, brick store building on 20th St.

Fla., Jacksonville—Cohen Brothers, St. James Bldg., has permit for interior alterations at Laura and Hogan Sts.; \$40,000.

Fla., Jacksonville—P. S. Clarkson, 136 Mallory St., has permit for \$13,000, 1-story, brick stores at 855-69 Stockton St., for S. H. Bates.

Ga., Atlanta—J. H. Taylor has \$25,000 permit for repairs to fire damage at 68-80 Means St.

Ga., Waycross—Jerome Crawley erect 4 brick stores at Albany Ave. and Tebeau St.

La., New Orleans—Lockett & Chachere, Archts., Title-Guarantee Bldg., opened bids

for erecting 2-story, frame and stucco store and apartment building, St. Bernard St. near Claiborne Ave., for J. Steinman; P. E. Bordages, 4501 Brenville St., low bidder at \$10,397. 4-7

La., Shreveport—S. Bender, 501 Gladstone Bldg., erect brick business building on Marshall St.

Miss., Gulfport—Jos. Lawrence, Sr., Proprietor of Guarantee Shoe Store, erect \$15,000 to \$20,000, 2-story building on Howard Ave.

N. C., Gastonia—B. B. Gardner, 314 Falls St., purchased building on Main St., to be occupied in part by Young Men's Shop; make extensive improvements and alterations.

N. C., Raleigh—Levinson Brothers, Maurice Levinson, Pres., purchased shoe stores formerly operated by Comet Co., at 133 Fayette St. and in Greensboro and Charlotte, plan extensive alterations.

N. C., Winston-Salem—J. W. and F. N. Snyder, 224 N. Main St., erect \$12,000 business building on E. Fifth St.

N. C., Winston-Salem—Stockton Realty Co., M. D. Stockton, 936 W. Fourth St., probably let contract next week for 2-story and basement, 44x150 ft. store building, Cherry between Fourth and Fifth Sts.; Johnson & Brannan, Archts., Peoples Natl. Bank Bldg., Lynchburg, Va. 4-14

S. C., Columbia—Mimnaugh's Department Store, John L. Mimnaugh, Main and Hampton Sts., plans extensive alterations of front and interior.

S. C., Charleston—Berlin Brothers, 114 King St., clothiers and furnishers, Sam Berlin, Mgr., have plans by D. C. Barbot, Archt., 26 Broad St., for remodeling building at N. E. corner Broad and King Sts. and fireproof, brick and steel addition; \$20,000.

Tex., Beaumont—Arthur M. Kaufman, 1029 Hotel Beaumont, receiving bids for \$45,000, 1-story, brick and steel, 110x65 ft. building at S. W. cor. Park and Franklin Sts.; F. W. Steinman & Son, Archts., San Jacinto Life Bldg.

Tex., Laredo—H. F. Valdez open bids about May 31 for remodeling 3-story store building; concrete, iron columns and steel beams, face brick, artificial stone, wood floors and joists, plate glass; Guy M. Trout, Archt., Ramos Bldg. 5-21

Tex., Mercedes—G. K. Watson opens bids June 6 for \$40,000, 2-story, 75x100-ft., brick and concrete store and apartment building; Ralph H. Cameron, City Natl. Bank Bldg., San Antonio, and R. Newell Waters, Weslaco, Asso. Archts. 3-10

Tex., Mission—James A. Gillett plans \$30,000, 2-story, 25x75-ft., brick store and apartment building; private plans.

Tex., San Antonio—Beverly W. Spillman, Archt., Alamo Natl. Bank Bldg., receive bids after May 28 for \$10,000, 1-story, 36x60 ft., concrete, hollow tile and stucco store building.

Tex., San Antonio—B. Mulhern, 1502 Burnett St., soon have plans by Beverly W. Spillman, Alamo Bank Bldg., for 1-story, 36x60 ft., concrete, hollow tile and stucco store building, New Braunfels Ave.

Tex., San Antonio—Alfred Duerler, 224 W. Commerce St., and Elmar Ditmar, City Natl. Bank Bldg., contemplate erecting \$60,000 to \$65,000 commercial building, Main, Elmira and Richmond Sts.; type not determined.

Tex., Sherman—John Tulloch, Archt., asked bids for remodeling building at 205 N. Travis St. occupied by Zidell's dry goods store.

Tex., Waco—Consolidated Retail Stores, Inc., Sixth and St. Charles Sts., St. Louis, leased 2 story Sturgis Bldg., N. W. cor. Fifth and Austin Sts., expend \$50,000 for improvements.

Va., Richmond—J. B. Mosby & Co., E. A. Dietrich, Pres., 201 W. Broad St., expend \$25,000 for new fixtures and equipment.

W. Va., Huntington—United Cigar Stores Co. of America leased property at Ninth St. and Fourth Ave. will make extensive improvements next year.

Theaters

Ga., Augusta—Frank Miller, Mgr. of Imperial and Modjeska Theaters, will expend \$20,000 remodeling Rialto Theater.

Mo., Jefferson City—James Walsh purchased theater building on Dunklin St., will remodel.

Mo., Kansas City—G. M. Baltis, 6119 Brookside St., erect \$20,000 theater and shops at 6040-6 E. 15th St.

N. C., Burlington—C. F. Finch, Thomas-

CONSTRUCTION DEPARTMENT

Manufacturers Record

ville, having plans drawn for proposed theater and office building on Main St.; receiving estimates and bids.

Okl., Lawton—Mrs. Margaret Day, owner of Dome Theater, will remodel at cost of \$20,000.

Okl., Tulsa—John Brown, Mgr. of Lyric Theater building, First and Main Sts., expend \$20,000 for addition, interior alterations and remodeling front.

Tex., San Benito—Ramon Ruenes, owner of Teatoe Juarez, erect \$50,000 theater building.

Warehouses

Fla., Ocala—Batey-Fleming Co., wholesale grocers, erect \$15,000, cement, tile and brick warehouse on Taylor St.

Md., Baltimore—Architectural Commission named William F. Stone, Munsey Bldg., as Archt. for supply warehouse and repair shop, 20th and Curtain Sts., for School Board;

William L. Rawls, Pres., Maryland Trust Bldg. 4-7

Mo., Kansas City—M. A. Friedman, 117 Westport St., erect 2-story, brick warehouse and office building, N. W. cor. Wornall Road and 43rd St.

N. C., Winston-Salem—Liberty Warehouse Corp., care Walter A. Shore, 129 Broad St., erect tobacco warehouse, N. Liberty and White Sts.; 238x200 ft.; \$75,000. 1-story, Carey roof, brick, concrete floors, brick foundation.

Okl., Medford—Oklahoma Northern Utility Co. planning storage house and office.

Tenn., Knoxville—Washington Danenhower erect \$12,000, 3-story, brick, 23x50-ft. warehouse.

Tex., Amarillo—Amarillo Hardware Co., E. W. Hardin, Pres., 508 Tyler St., has preliminary plans in progress by Guy A. Caramander, 15 Massie Bldg., for 4-story and basement, 120x140 ft., brick, stone, reinforced concrete, fireproof, wholesale building. 1-27

Okl., Medford—Oklahoma Northern Utility Co. planning storage house and office.

Tenn., Knoxville—Washington Danenhower erect \$12,000, 3-story, brick, 23x50-ft. warehouse.

Tex., Amarillo—Amarillo Hardware Co., E. W. Hardin, Pres., 508 Tyler St., has preliminary plans in progress by Guy A. Caramander, 15 Massie Bldg., for 4-story and basement, 120x140 ft., brick, stone, reinforced concrete, fireproof, wholesale building. 1-27

BUILDING CONTRACTS AWARDED

Association and Fraternal

Okl., Pawhuska—American Legion, Harry Buzan, Chmn., Bldg. Comm., let contract at \$19,000 to Smith & Stanfield for clubhouse; brick and stone, 1 story, 80x50 ft. 4-7

Bank and Office

Fla., Daytona Beach—Peninsular Abstract Co., Dr. Webber, Chmn. Bldg. Comm., 309 S. Palmetto Ave., let contract at \$330,000 to J. S. Shaw Construction Co., 516 Georgia Savings Bank Bldg., Atlanta, Ga., for hollow tile and brick office building; 5 stories and basement, 91x99 ft., structural steel; 100 offices; W. D. Harper & Co., Archts.-Engrs. Contractor advises: Work will not start for some time. 11-12-25

Ga., Atlanta—Massell Realty Co., 15 Poplar St., erecting \$350,000 office building, Spring and James Sts.; owner building; rein. concrete frame, 8 stories above curb; 2 stories limestone, brick and terra cotta to roof, 100x90 ft., terrazzo floors, rein. concrete foundation, gravel roof, Warren Webster system of heat; Otis or Westbrook elevators installed by owner; Raymond C. Snow Co., Archt. Bona Allen Bldg.: lately incorrectly reported to have let contract. 5-12

Ga., Augusta—Mosler Safe Co., Hamilton, O., has vault contract for \$70,000 improvements to Georgia Railroad Bank; heating and plumbing, T. G. Brittingham, 651 Broad St.; Scroggs & Ewing, Archts., Lamar Bldg., both Augusta; Palmer-Spivey Construction Co., Contr., 124 Eighth St., Augusta and 404 S. Tryon St., Charlotte, N. C. See Want Section—Building Materials and Equipment. 5-12

Mo., St. Louis—May Department Stores has \$10,000 permit to alter 22-story store and office building, 622 Locust St.; Westlake Construction Co., Contr., 1919 Rwy. Exchange Bldg.

N. C., Elizabeth City—Industrial Bank model building, E. Main St., for banking quarters and store; cost \$25,000; tile and prism glass front, bank fixtures; cost \$25,000. D. R. Scott, Contr.

N. C., North Wilkesboro—Deposit & Savings Bank remodel building; new front; Foster & Allen, Contrs.

Tex., Dallas—Rosser J. Coke, Amer. Ex. Bank Bldg., let contract to J. O. Everett, Melba Bldg., for 4-story office building, St. Paul and San Jacinto Sts.; foundation for 15 stories; brick and frame, 103x137 ft.; first floor leased to Toblan Garage, cotton offices above; J. A. Pitzinger, Archt., S. W. Life Bldg. 5-12

Tex., Houston—Hugh Maginn, 1004 California St., started work on \$16,000 frame and stucco office building, 1415 Chenevert St.; tar and gravel roof.

Tex., Houston—Jesse H. Jones, Goggan Bldg., reported erect \$4,500,000 office building, Main and Rusk Sts.; 35 stories, 150x125 ft., steel frame, brick and stone; National Bank of Commerce on first floor and some additional space above; Sakowitz Bros. to occupy store space on first floor and 5 additional floors; Alfred C. Finn, Archt.; razing present structures and excavation work to West construction Co.; Mr. Jones advises work will start soon, height not determined and contract not let.

Tex., Mercedes—Elsa Townsite Co., John A. Phelan, Mgr., let contract for \$16,000 bank and townsite office building to San Antonio Construction Co., Builders Exchange Bldg., San Antonio; tile and stucco, 1 story, 50x75

ft., cement floors, concrete foundation, tile roof; R. Newell Waters, Archt. Weslaco and Mercedes; assembling material. 5-12

Churches

Ala., Mobile—Oakdale Baptist Church erect \$20,000 building, site present structure, N. E. Bay Ave. and O'Donnell Sts.; brick, hollow tile and stucco, 2 stories, auditorium and gallery and 35 classrooms; accommodate about 1000; Clarence L. Hutchinson, Archt., State Office Bldg.; C. G. Jordan, Contr. 1-20

Ky., Louisville—St. Luke's Evangelical Church erect \$40,000 gymnasium, 1916 W. Jefferson St.; 1 story and basement, 90x70 ft., basket ball court accommodate 1000 as auditorium; showers and lockers; bowling alleys later; Geo. B. Hoehle, Archt., 3141 W. Madison St.; D. J. Lockwood, Contr., 1616 Beechwood St.

Md., Baltimore—Walbrook Evangelical Church (formerly Memorial Church), Fremont and Edmondson Aves., Rev. R. S. Starr, Pastor, erect \$50,000 Sunday school, Gwynns Falls Pkwy. and Longwood St.; stone, slate roof, wood floors, vapor heat; Clayton J. Lappley, Archt., 200 Locust St.; Jacob S. Foose, Contr., P. O. Box 1127, both Harrisburg, Pa.

Mo., St. Louis—Water Tower Baptist Church, 2115 E. Grand Blvd., let contract for \$25,000 superstructure to Wm. H. Hemminghaus, 1417 Destrehan St.; brick and stone, 2 stories, 47x82 ft., composition roof; set 300; L. J. Graham, Archt., 4885 Natural Bridge Rd. 4-28

Tex., Belton—Church of Christ let contract to New Lumber Co. for reinforced concrete, brick and stucco building, Penelope St.; 2 stories, 50x60 ft. 5-12

Tex., Eagle Pass—Roman Catholic Church remodel and enlarge building; cost \$10,000; Leo M. J. Dielmann, Archt., 306 E. Commerce St.; Estrada Lumber Co., Contr.

Tex., Houston—Heights Christian Church erect \$35,000 building, 17th Ave. and Heights Blvd., after plans by C. N. Nelson, 1017½ Eagle St.; rein. concrete, frame and brick veneer, 3 stories; P. H. Fredericks, Constr. 5-19

Tex., Mercedes—Immanuel Lutheran Church having plans prepared by Jacob Fossler and W. D. Uecker, Contrs., for \$20,000 building. 5-19

Tex., San Antonio—First Methodist Church let contract at \$26,198 to H. B. Allen, Fredericksburg Rd., for building, Woodlawn and Zarzamora Sts.; rein. concrete, face brick and hollow tile, auditorium and base ment; Morris & Noonan, Archts., Builders Exchange; wiring, Graham & Collins, 306 W. Commerce St., \$659. 5-5

City and County

Ala., Birmingham—Town of Homewood, suburb of Birmingham, Chas. E. Rice, Mayor, let contract to Miller Bros., 2024 Fourth Ave., Birmingham, for city hall and jail building; brick and stone, non-fireproof, 2 stories and basement, 94x38 ft., wood floors, concrete foundation, pitch and gravel roof; Dunham system steam heat and plumbing to Mason & Duhon, 2019 Fourth Ave. North; electrical work, O'Keefe & Lyons, 1702 Fifth Ave., N.; Ben Price, Archt., 1418 Age-Herd Bldg., all Birmingham. 4-28

Ark., El Dorado—Union County Board of Commrs., Chas. H. Murphy, Chmn., Bldg. Comm., let contract at \$692,500 to William Peterson, 313 Colonial St., Little Rock, and

El Dorado, for courthouse; fireproof, rein. concrete, Bedford Indiana limestone and brick, 4 stories, 100x160 ft., rein. concrete floors and foundation, Batesville stone in footings, tar and gravel roof, marble and plaster interior, tile, marble and concrete floors, plate glass, metal sash, struct. steel lintels, 2 elevators; Mann & Stern, Archts., 708-12 A. O. U. W. Bldg., Little Rock; W. J. Knight & Co., Engrs., Wainwright Bldg., St. Louis, Mo.; address equipment proposals to Archts.; other proposals to Contrs. 11-18

Fla., Largo—Pinellas County Board of Commrs. let contract at \$103,456 to M. B. Welch, 714 Central Ave., St. Petersburg, Fla., for detention home; accomodate 100; H. de V. Pratt, Archt., St. Petersburg, and 46 Broadfield St., Boston, Mass. 3-3

La., Marksville—Tile Shop, 824 Carondelet St., New Orleans, has tile flooring contract for \$250,000 Avoyelles Parish courthouse; Herman J. Duncan, Archt., 120 Muray St., Alexandria; Caldwell Bros., Contrs., 816 Howard Ave., New Orleans. 1-13

Tenn., Gallatin—City let contract at \$13,393 to D. K. Duncan for city hall; brick, 2 stories, 65x65 ft., composition shingle roof. 2-10

Dwellings

Ala., Birmingham—H. G. Hammond, 3455 Highland Ave., erect brick veneer residence, S. Overlook Rd. near 45th St.; cost about \$10,000, 2 stories, composition roof; Woolard & Lynch, Contrs., 2115 First Ave.

Ala., Birmingham—Meadow & Creedon, care Nelson Realty Co., 2032 N. Fourth Ave., erect \$10,000 dwelling, 174 La Prado Place; brick veneer, 2 stories, 10 rooms, composition roof; also \$11,000 one-story dwelling, S. Overlook Rd. near 54th St.; day labor.

Ala., Birmingham—E. W. Saucier, care P. W. Mewhinney, Archt., 1014 Woodward Bldg., erect brick veneer residence, Overlook Rd., Forrest Park; 2 stories, 30x50 ft., composition roof, 2 tile baths, furnace heat; A. G. Simmons, Contr., 434 Fifteenth St. S. W.

Ala., Birmingham—Geo. R. Stuart, 3290 Highland Drive, erect \$25,000 brick veneer residence, Forrest Park; 40x40 ft., tile roof, steam heat, 3 tile baths; C. H. McCauley, Archt., 709 Jackson Bldg.; Paul Bros., Contrs., Hollywood.

Ala., Montgomery—Cramton Lumber Co., Lawrence and Pollard Sts., erect 5 dwellings first block of Finley Ave., 3 at 923-25-27 S. Lawrence, 2 at 11-13 Walnut St., 1 at 806 Sayre and 1 at Elliott Sts.; total cost \$24,100; owner builds.

D. C., Washington—Service Plumbing and Heating Co., 5334½ Connecticut Ave. N. W., has hot water heating and plumbing contract for \$10,000 residence for W. J. Wire, 15 Aspen St., Chevy Chase; structure brick, 2 stories, 26x36 ft., slate roof; plans by owner; foundation in. 5-19

Fla., Jacksonville—McKenzie Building Co., Inc., 512 Atlantic Nat. Bank, D. P. McKenzie, Pres., erecting dwellings; have 20 contracted for at present.

Fla., Jacksonville—J. C. Raabe, Jr., 232 W. Beaver St., erect \$10,000 residence, 1366 Hollywood St.; 2 stories, brick veneer; Henry Taylor & Son, Contrs., 903 Lackawanna St.

Fla., Miami Beach—John D. Hertz, 3400 Sheridan Drive, Chicago, Ill., erect \$10,000 residence, 49th St. and Collins Ave.; John N. Bullen, Archt., Exchange Bldg.; Beach Construction Co., Contr., 1327 20th St.

Fla., Pensacola—Dr. T. H. Stokes, Thiesen Bldg., erecting residence, North Hill.

Fla., Pensacola—C. H. Sexton, 1724 E. Jackson St., erecting \$35,000 residence, North Hill section.

Ga., Atlanta—B. R. Haynes let contract to Barge-Thompson Co., 136 Ellis St., N. E., for \$75,000 residence; 2 stories and basement, 70x60 ft., brick foundation, Indiana limestone trim, face brick; Marye, Alger & Vinour, Archts., Walton Bldg. 5-12

Ga., Baxley—A. C. Russell, Railroad St., has electrical work contract for 8 dwellings under construction by J. E. Dyle; Green T. Moody, Contr.; plumbing by Contr. 5-19

Ga., Macon—D. Lewinstein erect 2 brick dwellings, Stanislaus.

La., New Orleans—Dr. Thos. J. Walshe, Audubon Bldg., erect \$18,500 stucco duplex, Broadway and St. Charles Ave.; Edwin L. Markel, Contr., 3838 Louisiana Avenue Pkwy.

La., New Orleans—Acme Homestead Association, 802 Poydras St., erect two \$13,000 duplexes, Louisiana and Roman Sts.; Walter W. White, Contr., 353 Louisiana Ave. Pkwy.

La., New Orleans—Edw. P. Throunk erect \$20,000 single brick residence, Dupre and

Vincent Sts.; Jos. J. Lagarde, Contr., Canal-Commercial Bldg.

La., Shreveport—F. C. Brinkmann, Jr., Giddens-Lane Bldg., let contract at \$24,251 to F. L. Tolle, 1754 Irving Place, for brick veneer residence, 864 Wilkinson St.; 2 stories, 73x52 ft., concrete foundation, composition shingle roof; hollow and interior tile, steel lath, electric refrigerator, tile, oak and linoleum floors; Seymour Van Os, Archt., 1213 City Bank Bldg. 5-19

La., Shreveport—Hugh E. Fitzsimmons let contract at \$27,968 to Strubbe-McConnell for residence, Glen Iris sub-division; 2 stories, brick, hardwood floors, tile baths, gas steam heat; Henry E. Schwartz, Archt., Slatte Bldg. 4-28

La., Shreveport—R. W. Norton, City Bank Bldg., erect \$45,000 residence, Fairfield Ave. and Robinson Place; stone trim, Georgian type; Garson Bros., Contrs., Majestic Bldg.

La., Shreveport—Mrs. Bertha S. Segall erecting \$16,500 frame and stucco residence, 255 Gladstone Blvd.; 2 stories, 47x48 ft., oak floors, asbestos roof; J. Stewart Smith, Contr., 1216 Slattery Blvd.; electrical work, Cahn Electric Co., 708 Milan St.; plumbing, Fitzgerald Plumbing Co., 941 Louisiana Ave.; tile work, Shreveport Tile Co., 712 Cotton St. 5-19

Md., Baltimore—Harry L. Youse, Temple Court Apt., erect \$15,000 residence, Tilbury Way and Thornhill Rd.; 2 stories, 32x68 ft., slate roof, hot water heat; W. F. Stone, Jr., Archt., Munsey Bldg.; Ralph MacMurray, Contr., 15 E. Fayette St.

Md., Baltimore—Robinson & Slagle, American Bldg., erect \$10,000 brick dwelling, 1502 Normandy Place; 2½ stories, 29x34 ft., slate roof, hot water heat; plans and construction by owner.

Md., Baltimore—Frank L. Applestein, Baltimore and Hanover Sts., erect \$15,000 brick residence and garage, Garrison Ave. and Dorchester Rd.; 2 stories, 36x75 ft. and 20x20 ft., slate roofs, steam heat; Sanislaus Russell, Archt., 11 E. Lexington St.

Md., Baltimore—William McHenry Keyser, Keyser Bldg., erect 5 hollow tile and stucco dwellings, N. side Taplow Rd. near Springlake Way; 2 stories; total cost \$40,000; Henry T. Sorrell & Son, Contrs., 4112 Kathland Ave.

Md., Baltimore—Lohmuller Building Co., 3001 Greenmount Ave., erect 7 brick dwellings, 142-152 De Palpe Ave.; 2 stories, 15x25 ft., Carey roofs, furnace heat; plans and construction by owner.

Md., Baltimore—Jas. W. Hawkins erect \$10,000 block residence, Witherspoon Road, near Charles Street Ave.; 2½ stories, 64x29 ft., slate roof, vapor heat; C. H. Hebrank, Archt., 3 E. Lexington St.; Thomas & Cross, Contrs.

Md., Baltimore—Chas. I. Elzey, 1706 McHenry St., erect \$10,000 frame residence, 524 Nottingham Road; 2 stories 40x35 ft., slate roof, hot water heat; Frederick Thomas, Archt., 726 E. 33rd St.; Caughey & Co., Contr., 220 E. Lexington St.

Md., Baltimore—W. F. Terry, Charles and Highfield Sts., erect 3 brick dwellings, E. side St. Paul St. near 32nd St.; 3 stories, 52x50 ft., slate roofs, steam heat; total cost \$15,000; F. E. Beall, Archt., 308 St. Paul St.; Foreman Construction Co., Contr., 125 N. High St.

Md., Baltimore—Philip S. Morgan, 514 St. Paul Pl., erect \$12,000 dwelling, Braxton Rd. and Tilbury Way, and \$10,000 dwelling, Tilbury Way near Taplow Road; 2 stories, 30x65 ft. and 38x38 ft., slate roofs, hot water heat; C. H. Hebrank, Archt., 3 E. Lexington St.; owner builds.

Mo., Clayton, St. Louis—Malcolm McMenamy let contract for \$50,000 residence, Upper Ladue Rd., to Century Realty and Construction Co., 7217 Manchester St.; English type, brick, 97x30 ft., 2 stories, slate roof, concrete foundation, chestnut trim, hot-water heat, oil burner; Jesse L. Bowling, Inc., Archt., Arcade Bldg. 1-27

Mo., Clayton, St. Louis—Frank C. Mueller, 2142 Nebraska St., erect \$10,000 brick residence, Kirkham St. near Berry Rd.; 27x44 ft.; total cost \$10,000; owner builds.

Mo., Joplin—C. E. Heinz, Baxter Springs, Kan., let contract to Dan R. Sandford, Joplin and Pittsburg, Kan., for English Colonial type residence; 2 stories; Chas. H. Sudhoefer, Archt., 715 Joplin St., Joplin. 5-12

Mo., Kansas City—A. J. King Realty Co., 12 E. Ninth St., Myron A. King, Pres., plans 150 dwellings and community center, connection with development of residence park; constr. in various stages; frame, stucco, brick, tile, etc., 1 and 2 stories, various dimensions, oak and composition floors, stone or tile

foundations, shingle, tile and slate roofs; some plans by owner, others by A. B. Fuller, Orear-Leslie Bldg., others not selected; hot-air and vacuum steam heating to A. Holtzman Heating Co., 700 E. 18th St.; other heating contracts not let; plumbing, Farley Bros., 514 E. 15th St.; electrical work not let. See Want Section—Building Materials and Equipment. 5-19

Mo., Kirkwood—Ed Hamilton, 224 W. Essex Ave., erect cinder block residence, Evans Ave.; 1½ stories and basement, 32x28 ft., composition roof, hardwood floors, tile bath, hot water heat; Dan Mullen, Archt., 18 Mera-mac St., Clayton; day labor.

Mo., St. Louis—Mrs. A. L. Woas erect \$27,000 residence, 6940 Delmar Ave.; brick and hollow tile, stucco exterior, 2 stories, 43x41 ft., oak floors, green or gray tile roof; A. L. Woas, Archt.; A. L. Woas Construction & Realty Co., Contr., all 6726 Olive St. Rd.; hot water heating and plumbing, Cabanne Plumbing Co., 5307 Pershing Ave.; electrical work, J. T. Kelly, 5088 Minerva St.; masonry work, Wellston Planing Mill Co., 6300 Wells Ave.; glazing, Pittsburgh Plate Glass Co., 1000 Spruce St.; tile and marble, May Tile Co., 4600 Olive St.

Mo., St. Louis—Otto O. Langeneckert, 3181 Portis St., let contract for brick residence, Alfred St., near Wyoming St.; cost about \$10,000; 1 story and basement, 28x47 ft., oak floors, stone foundation, tile baths, slate roof, hot air heat; O. J. Popp, Archt., 1501 Arcade Bldg. 4-21

Mo., St. Louis—Guy Randall, 4943 Odell St., erect addition to residence; brick, 2 stories and basement, 14x27 ft., stone foundation, composition roof, copper spouts; Chas. R. Greene, Archt., 403 Buden Bldg.; P. H. Haffner, Contr., 3139 Lackland St.

Mo., University City, St. Louis—Wm. J. Brown, 4836 Sacramento St., erect \$15,000 brick residence, 7159 Westmoreland St.; 2 stories and basement, 37x32 ft., tile roof, hardwood floors, tile bath, hot water heat; J. H. Williamson, Contr., 7039 Waterman St.

Mo., University City, St. Louis—Miles Heitzberg, 4545 Adelais St., erect brick residence, 550 Purdue Ave.; 2 stories, 40x34 ft., slate roof, hot water heat, garage, cost about \$10,000; Oliver J. Pomp, Archt., Arcade Bldg.; F. F. Meckfessel Construction Co., Contr., 6625 Delmar Ave.

Mo., University City, St. Louis—Advance Realty & Building Co. erect \$18,000 dwelling, 7158 Cambridge Ave.; 2 stories and basement, 35x32 ft., hardwood floors, tile roof, tile bath, vapor heat; Chas. W. Gorges, Archt., both 1224 Waldron; day labor.

Mo., University City, St. Louis—Elizabeth J. Denton, 5224 Cote Brilliante, erect \$15,000 residence, 7161 Westmoreland St.; brick, 2 stories and basement, 37x32 ft., tile roof, hardwood floors, tile bath, hot water heat; J. H. Williamson, Contr., 7039 Waterman St.

Mo., University City, St. Louis—Albert L. Woas, 6726 Olive Blvd., erect \$15,000 brick residence and garage, 6940 Delmar Blvd.; 2 stories, 43x41 ft., tile roof, hot water heat; owner builds.

Okl., Oklahoma City—Mrs. A. M. Prevost let contract at \$12,300 to Smiser Construction Co., 613 N. Hudson St., for residence; brick veneer, 2 stories and basement; Harry Reynolds, Archt., Terminal Arcade. 3-10

Okl., Tulsa—Neil G. Grubb, 1224 E. Hazel Blvd., erect \$37,000 Colonial residence, 1225 Hazel Blvd., Sunset Terrace addition; brick, garage.

Okl., Tulsa—Commonwealth Co., Tuloma Bldg., let contract for \$35,000 dwelling, 1132 E. 20th St., to F. R. Van Delden, 506 N. Quannah St., 1132 E. 20th; 2 stories, 55x35 ft., oak floors, concrete foundation, tile roof; vapor vacuum steam heating; Fred L. Knoblock, Archt., 15 Court Arcade Bldg. 5-19

Tenn., Chattanooga—Southern Pine Assn. and local retail lumber dealers erecting model dwelling, Fairlyland, Hardy Rd., Lookout Mountain; cost \$15,000; W. H. Sears, Archt.; D. F. Brandon, Contr., both James Bldg.

Tenn., Memphis—Guy S. Turner, 1349 Vinton Ave., erect \$10,000 brick veneer residence, 610 East Drive; garage \$500; heating \$1000; 8 rooms; V. V. Rittlemeyer, Contr., 1880 York St.

Tenn., Memphis—W. E. White, Fidelity Bank Bldg., erect \$10,000 duplex, 2269 Jefferson Ave.; brick veneer, 1 story and basement, 10 rooms, composition shingle roof, oak floors, tile baths, hot water heat; owner builds.

Tenn., Nashville—Southern Pine Assn., care Tynre Fain, Agent, Stahlman Bldg., erect model dwelling, Belle Meade Park; Donald W. Southgate, Archt., Amer. Tr. Bldg.; Sum-

mer Construction Co., Contr., 155 N. Fourth Ave.

Tenn., Nashville—Elizabeth R. Scruggs erect 2 dwellings, 2501-03 Sunset Ave.; brick veneer, 1 story, composition shingle roof, hot air heat; total cost \$12,000; day labor.

Tex., Amarillo—A. J. Harris, 103 W. Fountain St., erect fireproof stucco and Duntile residence; cement tile roof; J. Roy Smith, Archt., Blackburn Bldg.; C. E. Ashford, Contr.; tile from Amarillo Duntile Co.

Tex., Austin—E. H. Perry, 1002 Lavaca St., erect \$100,000 brick veneer residence; 2 stories, 40x150 ft. wood, tile and slate floors, concrete foundation, tile roof; Thomson & Swaine, Archts., Constr. Industries Bldg.; Walter Whitley, Contr., 3009 Knox St., both Dallas; plumbing and heating, Jud & Ormond, 703 N. Flores St., San Antonio. 5-19

Tex., Eastland—Judge John D. McRae erecting \$25,000 residence.

Tex., Edinburg—A. Y. Baker let contract at \$64,990 to A. J. Ross for residence; wiring, Edinburg Electric Co., \$1100; heating, West & Gutzeit, San Antonio, \$4534; plumbing not let; hollow tile and stucco, 2 stories, concrete foundation; Ralph H. Cameron, Archt., City Nat. Bank Bldg., San Antonio. 5-19

Tex., Houston—Houston Post-Dispatch erect model dwelling, Milford St., West Edgemont; Bonita Building & Lumber Co., Archt.-Contr., 8401 Harrisburg St.

Tex., Houston—A. S. Henley, 407 Colquitt St., let contract at \$38,525 to A. E. Scott, 3611 Houston St., for 2 duplexes, Bute and Colquitt Sts.; 2 stories, 8 rooms and 2 baths, each, incinerators, electric refrigeration, roll away beds; Cornell G. Curtis, Archt. 4-28

Tex., Houston—Mrs. Kate Fluellen let contract to Russell Brown Co., 3104 Main St., for brick veneer bungalow, 1700 block Kipling St.

Tex., Houston—Geo. T. Broun, Archt., Bldr., 4516 Main St., started 2 additional dwellings, Monticello.

Tex., Houston—W. W. Porch, Chronicle Bldg., started work on Colonial residence, Del Monte Drive, River Oaks; Chas. W. Oliver, Archt., River Oaks Bldg.; Henry H. Yates, Contr., Humble Bldg.

Tex., Houston—R. R. Perkins, 6411 Sherman St., has plumbing contract for residences for E. W. Fitzgerald and Mrs. M. Reese.

Tex., Houston—Hal I. Greer, 602 Francis St., erect brick veneer duplex, 702 Peden Ave.; 2 stories, 10 rooms, cost about \$10,000; O. P. Steeger, Contr., Bldrs. Exchang.

Tex., Houston—David Levy, 3402 Canal St., erecting 6 frame dwellings, Sampson and Nolan Sts.; 6 rooms; total cost \$17,500; Hugh Keding, Contr., 41 Rosalie St.

Tex., La Porte—R. C. Kuldell, Mgr., Hughes Tool Co., 300 Hughes St., Houston, let contract to Russell Brown Co., 3104 Main St., for \$10,000 shingle residence, Bayridge near La Porte. 5-19

Tex., Laredo—H. E. Sames let contract for brick veneer residence and garage to Jesus Esparza, care Buenz Lumber Co.; plumbing, Valerio & Gonzales; electrical work, Texas Central Power Co.; Frost Nat. Bank Bldg.; low bid for painting from Fidelity Painters & Decorators, 527 San Pedro Ave., both San Antonio; 2 stories, about 25.3 x35.9 ft., cast stone, 2-car garage, with servants' quarters, bath and laundry; Guy M. Trout, Archt., Ramos Bldg. 5-19

Tex., San Antonio—E. A. Fahrman, 602 Peck St., let contract for \$18,000 residence, Blue Bonnet Hills, to Otto Klaus, Medical Arts Bldg.; stone veneer, 1 story, 7 rooms, English type; Albaugh & Steinbomer, Archts., 941 Austin St.

Tex., San Antonio—Martin Giesecke, 1019 W. Magnolia St., erect Spanish type residence, Laurel Heights Place and Shook Ave.; concrete, hollow tile and stucco, 2 stories and basement, tile roof; Herff & Jones, Archts., S. A. Loan & Trust Co. Bldg.; Aug Fussell, Contr., 1903 Virginia St.

Tex., San Antonio—J. C. Rice, Medical Arts Bldg., let contract to Whyman & Weber for \$18,000 residence, Burleson, Fredericksburg Roads; concrete, hollow tile and stucco, tile roof, 2 stories.

Tex., San Antonio—H. T. Kellam, 925 Cambridge Oval, erect frame and stucco residence, Parkhill Drive; 2 stories, cost about \$10,000; W. H. Carrington, Contr., 2747 E. Houston St.

Government and State

Md., Jessups—State Board of Welfare, Robt. D. Case, Sec., Union Tr. Bldg., Baltimore, let contract for workhouse at House

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

Manufacturers Record

of Correction to Davis Construction Co., 9 W. Chase St., Baltimore, at \$80,750; brick, stone and slate, 60x160 ft., tool-proof gratings; two 400 h.p. water-tube boilers, E. Keeler Co., Williamsport, Pa., at \$20,797; refrigerating system, including building, Ralph MacMurray, 15 E. Fayette St., at \$6500; pump installation, heating system and heating equipment, Heat & Power Corp., 424 E. Saratoga St., both Baltimore; bids rejected for warden's residence; plans and specifications for new cell house and 400 extra cells probably ready within 2 weeks; Theo. Wells Pietsch, Archt., Hearst Tower; Geo. E. Painter, Mech. Engr., 9 E. Pleasant St., both Baltimore; recent session of Legislature appropriated \$850,000 for above work.

Mo., St. Louis—S. McFarland Estate, 5337 Delmar Ave., erect brick addition to 1-story post office sub-station, 4044 Easton St.; 24x36 ft., tar and gravel roof, hot-water heat; cost about \$10,000; A. Garland, Contr., 1721 Louderman Bldg.

N. C., Fort Bragg—Palmer-Spivey Co., Inc., 404 S. Tryon St., Charlotte, has plumbing contract at \$16,400 for \$250,000 barracks building, Fort Bragg; heating, W. W. Dick, 246 Bellemade St., Greensboro; Noble-Rasmussen, Contr., State Bank Bldg., La Crosse, Wis.

S. C., Lancaster—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., let contract for \$75,000 post office to Charles Weltz' Sons, Des Moines, Iowa; semi-fireproof, 2 stories, 52x74 ft., fireproof floors, brick foundation, composition roof. See Want Section—Building Materials and Equipment. 5-12

Hospitals, Sanitariums, Etc.

Okl., Oklahoma City—Oklahoma Sash and Door Co., 8 E. Grand St., has millwork contract for \$150,000 addition to St. Anthony's Hospital; plumbing and heating, Cook-McDonald Co., 416 N. Walker St.; wiring, Wetherbee Electric Co., 510 N. Hudson St.; stone, O. K. Cut Stone Co., 716 N. Second St.; steel, O. B. Klein Iron & Foundry Co., 1006 N. Second St.; roofing, Swanda Bros., 510 W. Second St.; Monnot & Reid, Archts., Magnolia Bldg.; Peltier & Fitzgibbons, Contrs. 4-28

Okl., Oklahoma City—Oklahoma General Hospital, 12th and Walker Sts., let contract for \$150,000 addition to Kriepke Engineering Co., Herskowitz Bldg.; rein. concrete, hollow tile curtain walls, stucco, 5 stories, 40x120 ft., concrete floors and foundation, tar and gravel roof; furnishings, equipment, etc., \$50,000; Harry Reynolds, Archt., 1141 N. Robinson St.; address equipment proposals to owner. See Want Section—Building Materials and Equipment. 2-10

Tex., Seguin—Seguin Hospital Corp. let contract to Albert Nolte to remodel 4-story bldg. for hospital.

Hotels and Apartments

Ala., Birmingham—Co-operative Ownership Apartment Co., George E. Denham, Pres., let contract to W. L. Coston for \$1,000,000, 8-story, steel, fireproof The Denhamshire apartment building, N. E. cor. Highland and Nianuma Aves.; 52 apartments, ranging from 4 to 7 rooms; individual electric refrigeration, incinerators, dishwashing sinks, double basement garages; structural steel to Ingalls Iron Works, 720 Avenue D; plumbing, heating and ventilation, Birmingham Purchasing Co., 831 W. 20th St.; electric installation, Bagby Elevator & Electric Co., 121 S. 20th St.; decoration, J. L. Strassell Co., 445 S. Third St., Louisville, Ky.; Denham, Van Keuren & Denham, Archts., Age-Herald Bldg. 3-10

Ala., Mobile—Strauss-Curley Construction Co. started work on 2-story, stucco over hollow tile apartment house, Church and Hamilton Sts.; hardwood floors, built-in features.

D. C., Washington—Valley Vista Apartment House Co. started work on \$750,000, brick and reinforced concrete, Spanish design, 6-story, 166-unit Valley Vista Apartment building, Belmont Road and Ashmead Place; 480x130 ft., electrical refrigeration, shower baths, individual lockers in basement, 3 high-speed elevators.

Fla., Jacksonville—T. G. Johnson, 2865 Post St., let contract to David W. Johnson, 2843 Post St., for \$10,000, 2-story, brick veneer apartment house, 2933 McKinlay Ave.; 36x50 ft., wood floors, concrete foundation, Johns-Manville asbestos roof; electric work to S. C. Reddick, 1432 Ionia St.; plumbing, L. M. Henley, 501 Riverside Ave.

Fla., Jacksonville—Buckman and Ulm let contract to O. P. Woodcock for \$18,000, 2-story, brick veneer, 2-flats, 2850 Riverside St.

Miss., Pass Christian—H. D. Bacon erect-

ing 2½-story, frame and stucco, 80x80 ft. hotel building; reinforced concrete foundation, Barrett specification and tile roofing; hot water heating and plumbing to Alonso B. Hayden; electric work, Electric Contracting & Engineering Co., Gulfport; plans and construction by owner. 4-7

Mo., St. Louis—J. H. Alles, 4503 Kingshighway N. E., let contract to H. Kissels Sons, 4107 W. Florissant St., for \$10,000, 2-story, brick tenement, 4495-7 Kingshighway; gravel roof, hot-air heat.

Mo., St. Louis—Margot Realty Co., 904 Chestnut St., let contract to J. Rubin, 904 Chestnut St., for two \$18,000, 3-story, 42x51 ft. tenements, 4165 Westminster and 448 Whittier Sts.; tar and gravel roof, steam heat; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—L. Meriwether, 5211 Washington St., let contract to F. Schmitt Construction Co., 650 Rosedale St., and J. Jameton, 4489 Forest Park Bl., for \$18,000, 2-story, 34x134 ft., brick tenement, 4429 Kennerly St.; plans by Mr. Jameton.

Mo., St. Louis—Union Realty and Construction Co., 5560 Easton St., erect five 2-story, brick, 34x45 ft. tenements, 5871-89 Maffitt St.; \$40,000, composition, tar and gravel roofs, hot-air heat; M. Larner, Archt., 5560 Easton St.; owners build.

Mo., St. Louis—Niehaus & Metal, 4237 Gannett St., erect four 2-story, brick, 24x44 ft. tenements, 5803-21-24-49 Goener St.; \$20,000; composition roof, hot-air heat; owner is Archt.-Builder.

Mo., University City, St. Louis—A. J. Moellenbeck, 6312 Victoria St., erect two 2-story, brick, 27x45 ft., single flats, 7124-6 Dartmouth Ave.; also two 20x20 ft., brick garages on rear of lots; \$20,000; tile roofs, steam heat; owner is Archt.-Builder.

Mo., University City, St. Louis—H. D. Henderson, 6900 Princeton St., erect four 2-story, single, 19x40 ft., brick flats, Maple Ave.; \$14,000, tar and gravel roofs, furnace heat; owner builds.

Tenn., Chattanooga—Herman Peachman, 611 Cherry St., started work on 3-story apartment house at Chamberlain and Greenwood Sts.

Tex., Brownwood—Fred L. Hayes, Prop. Jefferson Hotel, let contract to E. M. Ellis, at \$30,000, for 3-story, 40-room, 41x100-ft. brick and reinforced concrete hotel building; private plans. 5-19

Tex., Dallas—Brennan Co., Contrs., 1008 Oliver Eakle Bldg., let following sub-contracts on 7-story, 90x110 ft., brick, stone and reinforced concrete hotel building under construction: Refrigeration, heating and ice vaults to General Construction Co., Denver, Colo.; elevators, Otis Elevator Co., 1820 Young St.; E. F. Rittenberry, Archt., 301 Blackburn Bldg. 1-13

Tex., Dallas—F. R. Perkins, Engr., 5437 Miller St., Sam Kickerillo and F. J. Woerner, Central Bank Bldg., Archts., started work on fireproof, steel frame, 24-apartment building at S. W. cor. Ross and Garrett Aves., East Dallas; concrete floors, brick exterior with stone trim, garages.

Tex., Gainesville—Mrs. W. A. Robertson let contract for converting second floor of business building into 24-room hotel.

Tex., Galveston—Bellows-Maclay Construction Co., Kirby Bldg., Dallas, let following sub-contracts on \$500,000, 10-story and basement, 210-room Jean Lafitte Hotel: Plumbing, heating, refrigeration, C. Wallace Plumbing Co., 2224 Summer St.; reinforcing steel and metal pans, Truscon Steel Co., 115 Field St.; elevators, American Elevator & Machinery Co., Insurance Bldg.; marble, Vermont Marble Co., 1513 Wall St.; tile and terrazzo, J. C. Bruggen, 2007 Bryan St.; miscellaneous iron, R. J. DeWees Co., Slaughter Bldg., all Dallas; Alan T. Cooke & Co., Esperson Bldg.; face brick, Acme Brick Co., Bankers Mortgage Bldg., both Houston; cast stone, Southern Cement Products Co., 521 Menchaca St.; millwork, Steves Sash & Door Co., both San Antonio; painting, D. C. Downs, 410 Burk Burnett Bldg., Fort Worth; mail chute, Cutler Mall Chute Co., Rochester, N. Y.; sheet metal, Fred Hartel Co., 2321 F St.; lumber, Gulf Lumber Co., 3201 C St., both Galveston. 3-3

Tex., Houston—Dalton Hooper, 4218 Austin St., erecting five \$22,000, 2-story, 4-unit apartments, 1814-16-18-19-20 Calumet Drive; 40x64 ft., oak floors, concrete foundations, tile roofing; equipment and furnishings cost \$4000 each; gas steam heating and plumbing, McNally Plumbing & Heating Co., 2311 Preston St.; electric work, W. Cavender, 4632 Oakridge St.; plans and construction by owner. See Want Section—Building Materials and Equipment. 5-19

Tex., Houston—Henry O. Crosby started work on first of five 2-story, brick veneer

apartments in 1900 block Calumet Drive; cost \$22,000 each.

Tex., Houston—A. S. Henley, 407 Colquitt St., let contract to A. E. Scott, 3611 Houston St., at \$38,525, for 2 brick veneer duplex apartment houses, Bute and Colquitt Sts.; each consist of 8 rooms, with 2 baths, sun parlor and dining room; Cornell G. Curtis, Archt.

Tex., Kenedy—Mr. Goff, owner of Goff Hotel, let contract to Charles Newman, for \$25,000, hollow tile, brick and frame, 20-room third story addition; wood and tile floors, asphalt built-up roof; vacuum steam heating to A. H. Shafer, St. Mary's St., San Antonio; Will N. Noonan Co., Archts., Builders Exchange Bldg., San Antonio—See Want Section—Bldg. Materials and Equipment. 5-12

Tex., McAllen—Ben Anthony let contract to McAllen Construction Co. at \$35,000, for 2-story, hollow tile, stucco, 40x50 ft., semi-fireproof, 16-apartment building; composition and tile roof; A. H. Woolridge, Archt.

Tex., San Antonio—H. E. Patterson, 142 Bailey Ave., erecting \$34,000, 2-story, brick veneer apartment house, E. Kingshighway; concrete foundation, asbestos slate roof; J. E. Bridgeman, Archt., 307 N. Flores St.; W. C. Thrallkill, Contr., 706 Builders Exchange Bldg. 5-5

Tex., Wickett—Jackson Agee, 1316 Noble St., El Paso, erecting Agee Hotel building.

Miscellaneous

Ga., Atlanta—Carmichael Tile Co., 142 Ellis St. N. E., let contract to J. W. Wood, 382 Atlanta Ave. S. E., for 2-story and basement, brick building; Ludowick J. Hill, Jr., Archt. & Engr., 312 Atlanta Natl. Bank Bldg. 5-19

Tex., Amarillo—Amarillo Construction Co., 606 Courtney St., has \$33,000 permit for building, 700 Grant St.

Tex., Harlingen—E. H. Buck, Box 333, has contract at \$14,000 for Thompson Mortuary, concrete and brick; install seats and organ in chapel; equip second floor for apartment; Berger A. Elwing, Archt., Myrick Bldg.; address equipment proposals to J. C. Thompson, Jackson St. See Want Section—Building Materials and Equipment. 5-12

Tex., Houston—Jack Saunders, 4004 North Hill St., erect 2-story, frame building at San Jacinto Battle Grounds, for San Jacinto Inn; Hugh Putnam, 1401 Oxford St., will superintend construction; no general contract.

Tex., San Antonio—W. R. Stout, Gunter Bldg., let contract to G. W. Mitchell, Builders Exchange Bldg., at \$11,279, for 1-story, brick, concrete, hollow tile, stone trim beauty parlor, Pecan near Navarro Sts.; Adams & Adams, Archts., Builders Exchange Bldg. 5-19

Railway Stations, Sheds, Etc.

Fla., Miami—Seaboard All-Florida Railway let contract to H. & H. Construction Co., for combination freight and passenger stations at Central Miami, Tropicana, Redlands and Homestead; Phineas E. Paist, Archt. for Central Miami station, and Harvey & Clark, 307 S. Olive St., West Palm Beach, Archts. for others.

Schools

Fla., Bartow—Polk County Board of Public Instruction let contract to C. W. Robertson Construction Co., Tampa, at \$27,666, for Medulla school building; E. C. Hanford, Archt., Lakeland; A. D. Hollsinger, Supv. Archt., Bartow.

Fla., Fernandina—Grahn Construction Co., 133 Magnolia St., Daytona Beach, let following subcontracts on 2 school buildings, costing \$122,000: Heating and plumbing, Joseph Goldenberg Plumbing and Heating Co.; painting, Chicago Decorating Co., J. M. Bamond; both Daytona Beach; electric work, Nolds Electric Co., New Smyrna; cast stone, Jacksonville Concrete Products Co., 530 Riverside Ave.; structural steel, Highway Iron Products Co., Box 162; both Jacksonville; marble and tile, Zinni Tile Co., Ocala; millwork, Selden Cypress Door Co., Palatka; reinforcing steel, Truscon Steel Co., Youngstown, Ohio. 5-10

Fla., Jennings—Hamilton County Board of Public Instruction, Jasper, let contract to Jacobs & Harrington, at \$32,308, for school building; auditorium, 8 classrooms, cloak rooms and basement; S. J. Welch, Archt., Brent Bldg., Pensacola.

Fla., Miami—Dade County Board of Public Instruction, Ray L. Hamon, Director of Building Constr., let contract to W. P. Thurston, 22 N. Sheppard St., Richmond Va. and St. Augustine, at \$388,600, for erecting Dade County Agricultural High School and

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

domestic science bungalow, at Lemon City; plumbing fixtures to Quinn Plumbing Co., Inc., 1034 N. E. Second Ave., at \$19,260; electric equipment, Economy Electric Co., 1211 N. Flagler St., \$12,500; H. Hastings Mundy, Archt., 218 N. E. Fifth St. 5-19

Ky., Lawrenceburg—School Board let contract to Spencer & Goff for \$12,000 gymnasium at Kavanaugh High School on Woodford St.

Ky., Lexington—Board of Education let contract to George Hoskins Lumber Co., 611 E. Third St., at \$33,499, for finishing Jefferson Davis School, damaged by fire; plumbing to C. A. Matlack, 173 E. High St., \$845; electrical work, Brock Electrical Engineering Co., 235 E. Main St., \$2265.

La., Baton Rouge—East Baton Rouge Parish School Board, W. H. Perkins, Chmn., Building Comm., let contract to L. W. Eaton, 1601 N. Boulevard St., at \$41,357, for remodeling and repairing Senior High School on Florida St.; Wogan & Bernard, Archts., Raymond Bldg.*

La., Bogalusa—Louisiana State University let contract to H. J. Cowgill for buildings for summer school of forestry on 100-acre tract donated by Great Southern Lumber Co.; James T. Manning install Kohler lighting system.

La., Shreveport—Caddo Parish School Board let following contracts: Six-room addition to Line Ave. School to Welch & McLain, \$37,491; 6-room addition to Parkview School to J. M. Brown, 210 Milam St., \$27,760; auditorium at Greenwood, La., H. & B. Construction Co., Plain Dealing, at \$17,513; 4-room addition to school at Mooringsport to Swindle & Purcell, Plain Dealing, \$15,880; improvements to Queensborough School to Werner Co., Commercial Bank Bldg., \$6511; Edward F. Neild, Archt., City Bank Bldg.

Miss., Petal—Trustees of Leaf River Consolidated School, care F. A. McDonald, let contract to W. P. Keeton, at \$18,976, for 1-story, concrete tile, brick veneered, 128x108 ft. High School building; pine floors, concrete foundation, asbestos slate roof, equipment and furnishings cost \$5000; steam heating to Paine Heating Co., 127 S. State St., Jackson; plumbing, Hub Plumbing Co., Hattiesburg; electric work, T. M. Hamilton, Petal; E. C. Hearon & Sons, Archts., 201½ W. Pine St., Hattiesburg.

Mo., Kansas City—St. Elizabeth's Catholic Church, Rev. P. R. Kennedy, pastor, let contract to F. H. Powlick, 5600 Harrison St., for parochial school at N. W. cor. 75th and Main Sts.; R. J. Raney, Archt., 637 Washington St.

Mo., St. Louis—St. Louis University, care Rev. J. P. Monaghan, 221 N. Grand Blvd., erecting \$70,000, 1-story, 45x73 ft., reinforced concrete, stone and steel chapel building; tile floors, stone foundation, slate roof, equipment and furnishings cost \$10,000; heating to Elliott & Barry Engineering Co., 4000 W. Pine St.; plumbing, McNamara Plumbing Co., 6230 Delmar Blvd.; electric work, Eclipse Electric Co., 1224 Pine St.; O'Meara & Hills, Archts., 1705 Arcade Bldg.; C. W. Schuler & Co., Contrs., 2838-42 Texas Ave.

N. C., Asheville—Board of Education let contract to Palmer-Spivey Construction Co., 404 S. Tryon St., Charlotte, at \$610,158, for Senior High School building; heating and ventilating to Pleckard & Co., Citizens Bldg., at \$42,500 and plumbing at \$41,000; electrical work, Naiman & Co., \$32,492; Douglas D. Ellington, Archt., 506 Flat Iron Bldg. 5-5

N. C., Mount Airy—Surry County Board of Education let contract to C. D. Franklin, Elkin, at \$15,172, for 10-room school at Beulah, on Lowgap road; also to Mitchell-Fowler Co., Pilot Mountain, at \$11,188, for school on Mount Airy-Pilot road.

Okla., Tecumseh—Tecumseh College, T. A. Searcy, Pres., Box 206, rebuilding burned school and Church building; 1 story, brick, 40x50 ft. and 50x100 ft.; cost \$15,000; hardwood floors, concrete foundation, composition roof; work by day labor. See Want Section—Bldg. Materials and Equipment. 4-28

S. C., Charleston—City Board of School Commissioners, A. B. Rhett, Supt., let contract to T. W. Worthy, N. Commercial Wharf, at \$9327, for 3-story, brick addition at James Simons School; D. C. Barbot, Archt., 26 Broad St. 5-12

Tenn., Knoxville—Knoxville College will sub-let all work on \$25,000, 1-story and basement, 80x120 ft. gymnasium on College St.; brick, wood floor joists, tin roof supported on steel trusses, cement and wood floors, concrete foundation; R. M. Trimble, Archt., 709 Commonwealth Annex, Pittsburgh, Pa.: work started. 3-19

Tex., Abilene—Board of Education let contract to Suggs & Dunlap, at \$30,000, for

brick and reinforced concrete, 8-classroom, auditorium, etc., ward school building; William Nichols and George F. Campbell, Archts., 29-30 Radford Bldg. 4-21

Tex., Austin—Fakes Furniture Co., Fort Worth Club Bldg., Fort Worth, received contract to supply carpets, draperies and furniture for Alice Littlefield Memorial Dormitory at University of Texas, at \$49,762. 2-11-26

Tex., Dishman—Briggs-Coleman Common School District, J. C. Turner, Pres. Board of Education, let contract to A. Goldammer, Harlingen, at \$23,676, for school building; 1 story, auditorium, hollow tile, stucco; Kelwood Co., Archts., Travis Bldg., San Antonio.

Tex., Edinburg—Edinburg Independent School District, M. M. McIlhenny, Pres. Board of Trustees, let contract to W. L. Pearson & Co., at \$279,150, for 2-story, brick and reinforced concrete, 220x230 ft. Junior High School building; Giesecke & Harris, Archts., 207 W. Seventh St., Austin, and Edinburg.

Tex., Lufkin—Board of Trustees Wells School District started work on \$10,000 addition to High School.

Tex., Megargee—Board of Education, Arch Holmes, Sec., let contract to L. J. Gentry, Hemet, at \$35,250, for 2-story, brick and concrete, 140x150-ft., 6-room and auditorium, hollow tile and stucco High School building; wood floors, concrete foundation, tar and gravel roof; equipment and furnishings cost \$5000; Voelcker & Dixon, Archts., Kahn Bldg., Wichita Falls. See Want Section—Building Materials and Equipment. 3-24

Tex., Moody—Board of Education let contract to G. E. Shirley, 3007 Swiss Ave., Dallas, at \$30,144, for 2-story, 139x56 ft., brick and frame school building; heating and plumbing to Dave Meers, Waco, at \$4876; C. H. Leinbach, Archt., 303 Central Bank Bldg., Dallas.

Tex., Pampa—Board of Education let contract to C. H. Sharp Construction Co., Oliver-Eakle Bldg., Amarillo, at \$33,500, for 1-story, brick and reinforced concrete ward school; W. R. Kaufman, Archt., 1007 Monroe St., Amarillo.

Tex., Perryton—Corlett-Welchous, Contrs., 26½ West St., Hutchinson, Kansas, let following sub-contracts on \$70,000, 2-story, brick and reinforced concrete, 138x130 ft. school: Heating and plumbing, New Mexico Plumbing Co., 405 N. Fillmore St., Amarillo; electrical work, Ramsy-King Electric Co.; roofing, Hamilton Bros.; both Hutchinson; stone, Bedford-Carthage Stone Co., 101 N. Pierce St.; brick, Acme Brick Co., Amarillo Bldg.; both Amarillo; lumber, Pan Handie Lumber Co., Perryton; concrete foundation, Johns-Manville composition roof; Mann & Co., Archts., Hutchinson. 5-12

Tex., Westover—Board of Education let contract to J. S. Murphy, Mineral Wells, at \$15,104, for 7-classroom and auditorium, 2-story and part basement school addition and remodeling; Voelcker & Dixon, Archts., 4 Kahn Bldg., Wichita Falls. 4-21

W. Va., Martinsburg—Board of Education let contract to C. Harrison Smith, Robson-Pritchard Bldg., Huntington, at \$217,300, for High School building; Frampton & Bowers, Archts., 414 11th St., Huntington; W. A. Bodell & Co., 621 Commerce St., Bluefield, plumbing at \$15,104; electrical installation, Rosenblatt & Hunt, Charleston Nat. Bank Bldg., Charleston, \$8625; clock system to International Time Recording Co., 50 Broad St., New York, at \$1742.

W. Va., Ona—Fred C. Prichard announced contract let to Hancock Construction Co., R. & P. Bldg., Huntington, for \$100,000 Prichard School.

Stores

Fla., Tallahassee—Child Brothers has contract for brick business building at Jefferson and Monroe Sts.

Ga., Atlanta—Tull Rubber & Supply Co., 150 Marietta St., erect 2-story, reinforced concrete building at 285 Marietta St.; will be built by Robert & Co., Engrs., Bara Allen Bldg.

Md., Baltimore—A. Goldberg erect \$15,000, 1-story, 39x80 ft., brick building, 601-3 S. Broadway; slag roof, hot-water heat; owner builds.

Md., Baltimore—J. W. Tottle, 321 W. Lexington St., let contract to Consolidated Engineering Co., 20 E. Franklin St., for \$10,000, 2-story brick, 15x80 ft. building at 533 N. Gay St.; C. M. Anderson, Archt., 9 E. Pleasant St.

Mo., St. Louis—E. A. Freund, 416 Wainwright Bldg., let contract to Huger & Bueker Construction Co., 801-2 Wainwright Bldg., for \$31,500, 1-story, brick, 172x144 ft. stores and recreation rooms, 3837-67 Gravols

St.; composition, tar and gravel roof; O. J. Krieg, Archt., 821 Wainwright Bldg.

Mo., St. Louis—St. Louis Wholesale Florists Assn., 1420 Pine St., let contract to William H. Smith-Nelson Cuniff Co., 410 N. Euclid Ave., for \$85,000, 2-story, 263x110 ft., brick stores at 2722-44 La Salle St.; composition roof, furnace heat; W. Levi, Archt., Dolph Bldg.

Tenn., Ashland City—R. L. Parrish, T. H. Jordan and E. D. Jordan let contract to D. E. Wayman, for 3 brick storerooms on Main St. 5-21

Tenn., Johnson City—Fogleman Furniture Co. erecting 2-story, brick and steel business building.

Tenn., Knoxville—Louis Madden, Journal Bl., let contract to S. D. Cox, Empire Bldg., for 1-story, brick store and garage building, W. Cumberland Ave.

Tex., Brownsville—Aziz Brothers let contract to W. A. Velton, at \$34,027, for 2-story, semi-fireproof, stucco exterior, 50x120 ft. store and office building; cement and wood floors, composition roof; Page Brothers, Archts., Austin Nat'l. Bank Bldg., Austin; M. L. Diver, Engr., Calcasieu Bldg., San Antonio.*

Tex., Donna—Dan N. Smith let contract to Warden-Henry Construction Co., Harlingen, at \$34,000, for 2-story and basement, 104x50 ft. store and hotel building; hollow tile, stucco, brick, reinforced concrete foundation, cast stone trim; Page Brothers, Archts., Austin Nat'l. Bank Bldg. 5-12

Tex., Fort Worth—W. F. Stewart, 502 W. 25th St., started work on \$10,000, 1-story, brick and tile, 50x60 ft. stores building, 242-64 N. Main St.; cement foundation, concrete floors, gravel roof; T. Z. Hamilton, Archt., Reynolds Bldg.; M. J. Bisco, Contr. B. Burnett Bldg. 5-19

Tex., Houston—Dallas & Smith Corp., E. C. Barkley, Pres., 2115 Sunset Blvd., erect \$30,000 store and efficiency apartment building, cor. Dallas and Smith Sts.; remodel 2 frame 2-story buildings; J. W. Northrop, Jr., Archt., West Bldg.; C. C. Bell, Jr., Contr., 3511 McKinney St.

Tex., Port Arthur—C. H. Barnes Feed Store, 609 Houston Ave. let contract to F. H. Drunagel, 2415 Lakeshore Dr., for \$15,000, brick veneer and interlocking tile, 1-story, 50x140 ft. store building, 515-17 Houston Ave.

Tex., San Antonio—A. H. Ball, 242 Allensworth St., let contract to H. A. Miller, 812 Builders Exchange Bldg., for \$10,000, 1-story, concrete frame and mill construction, 48x70 ft. store building, 800 block San Pedro Ave.; concrete, pitch and wood floors, concrete foundation, pitch and gravel roof; electric work to Braden-Hudson-Wangler Co., Inc., 305 E. Commerce St.; plumbing, Gutzeit Bros., 214 E. Crockett St.; Seutter & Simons, Archts., 601 Builders Exchange Bldg. See Want Section—Building Materials and Equipment. 5-12

Tex., Waco—David George, 2017 Herring Ave., let contract to N. A. Palmer, 2125 Lasker Ave., for \$12,500, 72½x100 ft., brick business building, Austin Ave. near 11th St.; Herman F. Cason, Archt., 206 Cameron Bldg.*

Tex., Waco—J. A. Early, 313 Franklin Ave., let contract for 3 store buildings. Austin between 10th and 11th Sts.; \$15,000.

Va., Richmond—Doyle & Russell, Grace American Bldg., received contract at \$80,000, for 3-story, steel and stone store building, S. W. cor. Fifth and Franklin Sts., to be occupied by H. R. Haase & Co.; Carl M. Lindner, Archt., State and City Bank Bldg.

Theaters

Ala., Alabama City—G. E. Bilbro erecting 40x112½-ft. brick Ritz Theater building, to be owned and operated by Jack Martin; plans and construction by Charles E. Waldrop, Attala; Mr. Bilbro also erecting 22x80-ft. brick building adjoining for grocery store for Julius Gray.

Ala., Haleyville—B. J. Cowart let contract to Putnam & Taylor for \$16,500, brick theater building on 20th St.

La., Shreveport—A. L. & E. J. Waller, City Bank Bldg., let contract to Hinerman & Beloit, Ricon-Blew Bldg., at \$19,793, for motion picture theater at Fetzer Ave. and Harrer St.; leased by Charles Morel, El Dorado, Ark.; Jones, Roessle, Olschner & Weiner, Archts., Ardis Bldg. 4-21

Tex., Corsicana—Ideal Theater, M. L. Levine, owner, let contract to John Carson, at \$15,000, for remodeling; private plans.

Tex., McLean—Johnnie Black let contract to Charles Cook for 1-story, brick, 21x40-ft. theater building, N. First St.

Tex., Wickett—J. R. Sanders and T. J. Kellis, O'Donnell, erecting theater building.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

Warehouses

Mo., St. Louis—Olive Investment Co., 2121 Olive St., let contract to Mississippi Valley Construction Co., 802 Chestnut St., for \$20,000, 2-story, brick, 44x107 ft. warehouse and office building, 2121 Olive St.; Aegeert & Bailey, Archts., Railway Exchange Bldg.

N. C., Concord—Brown-Harry Co., Inc., P. O. Box 338, Gastonia, Contrs. for \$40,000, 3-story, 110x136-ft. cotton warehouse for Gibson Manufacturing Co., McGill St., let following sub-contracts: Roofing, sheet metal, tar concrete, O. A. Smith Roofing Co., Gastonia;

structural steel, Southern Engineering Co., Dowd Rd.; cast and wrought iron, fire doors, railing, etc., T. L. Talbert Steel and Iron Co., 407 S. Church St., both Charlotte; heating, plumbing and electric wiring not let; slow burning, mill construction, concrete foundation, tar and gravel roof; Lockwood-Greene & Co., Inc., Archts., Johnson Bldg., Charlotte. 5-12

N. C., Oxford—Fleming Co. let contract at \$37,429, for 150x285 ft., brick warehouse on Hillsboro St.

N. C., Oxford—Fleming Warehouse Co. let contract to Smoot & Forest, Rosemary, at

Manufacturers Record

\$37,429, for 150x285 ft., brick, wood beams tobacco warehouse.

Tex., Big Spring—H. O. Wooten, wholesale grocer, erecting 50x100 ft., fireproof storage building, First and Johnson Sts.

Tex., Dallas—C. R. Jackson, Kirby Bldg., erect \$14,000, brick warehouse, 3728 La France St.; Coburn, Smith & Evans, Archts., Republic Bank Bldg.

Tex., Fort Worth—St. Louis Junk Co., 308 E. Broadway, let contract to Cain & Cain, Moore Bldg., at \$13,023 for 1-story and basement, brick and reinforced concrete warehouse; private plans. 5-19

WANT SECTION

THE CLASSIFICATIONS IN THIS SECTION ARE:

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Machinery and Supplies

Air Compressor.—See Domestic Light Plant, etc.

Aluminum Boxes, etc.—Pomolene Manufacturing Co., C. A. Constantine, 19½ Peachtree St., Atlanta, Ga.—Wants small aluminum boxes with tops hinged on, about 2½-in. square and 1½-in. deep.

Bakelite, etc.—David D. Gibson, 1517 N. Thirty-sixth Place, Birmingham, Ala.—Wants data on moulders of Bakelite, Relytite, Condensite, etc.

Bottles (Glass).—J. S. Wilson, Bailey, N. C.—Wants data on glass bottles and accessories; correspond with manufacturers.

Canning Plant.—B. A. Grisard, Winchester, Tenn.—Wants information and prices for establishment canning plant, including equipment and cost of operation.

Canning Plant Equipment.—E. F. Wilson, Versailles, Mo.—Wants data and prices on equipment for small fruit canning plant.

Coal Mining Equipment.—J. M. Tully, Gen. Mgr., Crystal Block Mining Co., Sprigg, W. Va.—Wants prices on shaker screens, loading boom and conveyors.

Compressor.—L. J. Breed Equipment Co., 811 James Bldg., Chattanooga, Tenn.—Wants one or two 1200 to 1800 cu. ft. synchronous motor driven compressor, direct connected, good used condition; state age, price, make, condition and manufacturers name; prefer Chicago Pneumatic.

Conveyors.—See Coal Mining Equipment.

Crane (Electric, Traveling).—Binghamton Brick Co., Inc., C. C. Austin, Treas., Binghamton, New York—Wants electric traveling crane, 35 to 50-ft. span, any length, equipped with ½ or 1-yd. clam shell and hoist with minimum lift of 20 feet; second-hand equipment; give complete description, voltage, speed, price and place of inspection.

Creamery Equipment and Supplies.—The Producers Creamery, Inc., 2728 Washington Ave., Houston, Tex.—Wants prices on following equipment for creamery, daily capacity 3500 gal. milk:

(1) Bottles—milk.
(2) Bottle Filler, Washer, etc.
(3) Crates—bottle.
(4) Cultures for buttermilk, cheese, etc.
(5) Pasteurizers, etc.

Domestic Light Plant, etc.—W. P. McInerney, 1518 State St., Houston, Tex.—Wants prices on small lighting plant with air compressor and bilge pump combined, 3 to 4½ kw.; second-hand if in good condition; to be used on small ship.

Electric Generating Plant.—S. Wade Callahan, Archt., 217 Woodward Bldg., Washington, D. C.—Wants sub-contract bids on 10 kw. generating plant, for Charlotte Hall School, Charlotte Hall, Md.

Engines.—T. E. King, Gen. Mgr., Denmark Machine and Foundry Co., Denmark, S. C.—Wants prices on one or more 37½, 40, 50, 60 and 74 h. p., Fairbanks-Morse Y type, semi-Diesel or Diesel vertical crude oil engines or any good make crude oil horizontal type engines in good condition, near by for S. C. delivery; prefer the 37½ h. p., Fairbanks-Morse, Y type, crude oil engine and can use 40 h. p.; immediate delivery.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Felt (Cloth).—A. J. Churchill, Pres., Hollywood Hat Co., 5621 Sunset Blvd., Hollywood, Calif.—Wants prices and samples of felt suitable for manufacturing hats.

Garage Equipment and Supplies.—Russell Webb Motor Co., Main St., Albany, Tex.—Wants prices on equipment and supplies for garage and service station.

Grinding Equipment.—W. K. Bell, Christiansburg, Va.—Wants grinder suitable for grinding roots, etc.

Handkerchief Machinery.—Dudley Bradstreet Wade, Jr., 215 Holman Hotel Bldg., Athens, Ga.—Wants data and prices on automatic machine for making, cutting and hemstitching pocket handkerchiefs.

Loading Boom.—See Coal Mining Equipment.

Looms (Porch Shades).—Cummins Manufacturing Co., Inc., Fayetteville, Tenn.—Wants data on looms for weaving porch shades, use wood strips about ¾-in. wide, 1/16-in. thick.

Merry-go-round Equipment.—Gurney Wade, 616 N. Main St., High Point, N. C.—Wants prices on horses, carriages and other parts including small organs, used in building small kiddie rides and merry-go-round.

Organ.—See Merry-go-round Equipment.

Pipe.—McCrory Engineering Co., (Drainage and Irrigation Engrs.), Box 356, Stuart, Fla.—Wants to correspond with manufacturers of following:

(1) Pipe—Cast iron and sewer.
(2) Valves and Connections.

Pump (Bilge).—See Domestic Light Plant, etc.

Seismograph.—Vet L. Brown, Bartow, Fla.—Wants prices on type of seismograph used by oil prospectors.

Shaker Screens.—See Coal Mining Equipment.

Shears (Gate Type).—Union Shipbuilding Co., Box 475, Baltimore, Md.—Wants big gate-type shear with double housing for cutting ship scrapping and to have a capacity for cutting up to 3-in. thick and plates as wide as 5-ft. 6-in., the material to pass through the shears and on to a conveyor for delivery direct to cars.

Spring Motors.—David D. Gibson, 1517 N. Thirty-sixth Place, Birmingham, Ala.—Wants data on spring motors, correspond with manufacturers.

Tank (Septic).—S. Wade Callahan, Archt., 217 Woodward Bldg., Washington, D. C.—Wants sub-contract bids on septic tank for Charlotte Hall School, Charlotte Hall, Md.

Tanks (Water).—L. M. Williams, Pres., Virginia Central Railway, 628 E. Main St., Richmond, Va.—Wants to purchase one or two cypress or redwood water tanks, capacity not less than 5000 gal., not more than 15,000 gal., mounted on metal tower not less than 50 ft. high or more than 75 ft. high.

Textiles.—I. Kelmanson of Kelmanson's Dress Factory, 420 Main St., Jacksonville, Fla.—Wants to correspond with Southern mills producing goods suitable for making dresses.

Water Works.—Town of Star, N. C., B. B. Hogan, Clk.—Wants 3 deep well pumps and motors for city water, with automatic

switches; pumps with motors that will put the water in the main direct, has 3 wells furnishing 90 gals., 60 gals. and 32 gals. per min.; two of wells are 250 ft. deep, the other is 300 ft. deep.

Weather Stripping.—Norwood Wilson, Hopewell, Va.—Wants prices on weather strip for hotel with approximately 200 openings.

W. H. Faber.—Eagle Lake, Tex.—Wants to represent manufacturers in Texas or part of state of following:

- (1) Asphalt Plants and Distributors.
- (2) Crushing and Screening Plants.
- (3) Heating Kettles.
- (4) Pipe—cast iron and other supplies for water works systems.
- (5) Rollers.
- (6) Road Graders—all sizes.
- (7) Sweepers—steel broom.
- (8) Tractors—with rubber tired wheels and crawler type.

Tampa Public Library.—Ernest L. Robinson, Sec., Seventh and Franklin St., Tampa Fla., wants trade catalogs to complete files for use of engineers, contractors, architects.

J. J. Edwards.—Newport, N. C.—Wants material for manufacture of rupture truss springs, pads, etc.

Logan Machine Shops, Inc.—Logan, W. Va., wants following equipment:

- (1) Japanning Oven—for baking large armatures, arranged for natural gas or electric heat or for both.
- (2) Motor—variable speed 600-1200 r. p. m. A. C. 220 volts, 3 phase, 60 cycle, 3 to 7 h. p.
- (3) Transformers—5 kva to 50 kva, 60 cycle, 2300 volts to 220-440 volts.

Standard Medicine Co.—Box 1725, Lakeland, Fla., recently incorporated, in market for following:

- (1) Bottles—1, 2, 3 and 5 oz. capacity.
- (2) Drugs and Chemicals.
- (3) Sample Cases—for solicitors and traveling men.
- (4) Tubes—collapsible metal, for ointments and salves.

Donalson-Afford Agency (Direct Factory Agents).—213 Shoreland Arcade, Miami, Fla.—Wants to represent manufacturers of:

- (1) Cranes, hoists and chain blocks.

C. C. Moseley.—Lyons, Ga.—Wants data on following machinery, names and addresses manufacturers:

- (1) Corn Milling Machinery — manufacture corn meal and grits.
- (2) Elevator Equipment.
- (3) Husking and Shelling Machinery.

Korner-Wilson Co.—128½ S. Salisbury St., (Decorators and Furnishers), Raleigh, N. C.—Wants following equipment:

- (1) Stamping and Shaping Machines — for articles such as snap fasteners, suspender buckles, etc.
- (2) Turning Machines—for hard rubber and other similar compositions.

Bids Asked

Beads (Wood or Composition).—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids June 6 for wood or composition beads, various sizes and colors, for year ending June 30, 1928.

Boiler (Heating).—Treasury Dept., Supy. Architect's Office, Washington, D. C.—Re-

ceives bids June 20 to furnish and install one new heating boiler, connections, etc., in U. S. Post Office and Court House, Victoria, Tex.

Breakwater, etc. — U. S. Engineer Office, Milwaukee, Wis. — Receives bids June 10 to construct south breakwater and shore connection at Frankfort, Mich.

Bridge. — State of Kentucky. See Construction News — Roads, Streets, Paving.

Bridge. — New Orleans, La., receives bids for 2 bridges. See Construction News — Bridges, Culverts, Viaducts.

Bridge. — State of West Virginia receives bids for 5 bridges. See Construction News — Bridges, Culverts, Viaducts.

Bridge. — New Jersey Board of Commerce and Navigation, Trenton, N. J. — Receives bids June 15 for substructure and superstructure of 105-ft. steel girder swing span, electrically operated, and 35-ft. steel girder approach span, over Bay Head-Manasquan Canal at Point Pleasant, N. J.; plans and specifications from Robinson & Steinmann, Consult. Engrs., 25 Church St., New York City.

Bridge. — Miami, Fla. See Construction News — Bridges, Culverts, Viaducts.

Bridge. — Macon, Miss., receives bids for 4 bridges. See Construction News — Bridges, Culverts, Viaducts.

Bridge. — Pender County Comr., George F. Lucas, Clk., Burgaw, N. C. — Receives bids June 6 to repair Lanes Ferry Bridge near Rocky Point. Includes:

- (1) **Cofferdam** — around main draw span pier, bids to be for lumber per 1000 f. b. m. in place.
- (2) **Concrete** — Class A, per cu. yd.
- (3) **Piling** — Around main pier, per lin. ft. in place.

Bridge. — Houston, Tex. See Construction News — Bridges, Culverts, Viaducts.

Bridge. — Galveston, Tex. See Construction News — Bridges, Culverts, Viaducts.

Cafeteria Counters, etc. — U. S. Veterans Bureau, Supply Division, Washington, D. C. — Receives bids June 2 for cafeteria counters and steam tables, for U. S. V. Hospital, Philadelphia, Pa.

Concrete Reservoir. — See Water Works.

Curbs, etc. — Washington, D. C. See Construction News — Roads, Streets, Paving.

Dragline. — See Shovel (Power).

Dredging. — U. S. Engineer Office, Wilmington, Del. — Receives bids May 25 for dredging Salem River, N. J.

Dredging. — U. S. Engineer's Office, Wilmington, Del. — Receives bids June 23 to dredge old entrance to Inland Waterways from Delaware River to Chesapeake Bay (Chesapeake and Delaware Canal).

Drink Mixers. — U. S. Veterans Bureau, Supply Division, Washington, D. C. — Receives bids June 1 for electric drink mixers, hand automatic complete with cup; Gilchrist's No. 22 or equal.

Electric Hammer and Accessories. — Marine Corps, Quartermaster's Dept., Washington, D. C. — Receives bids June 3 to furnish electric hammer outfit, 110 a. c., 60 cycle, also 8 star drills, 4 cold chisels, 8 stone points, 3 heading tools, 2 bush hammer shanks, etc.; delivery Quantico, Va. Sch. 661.

Engraving. — Marine Corps, Quartermaster's Dept., Washington, D. C. — Receives bids June 3 to engrave bars, medals, etc., for year ending June 30, 1928. Sch. No. 1-1928.

Fire Hose. — U. S. Veterans Bureau, Supply Division, Washington, D. C. — Receives bids June 4 to furnish 1500 ft. of 2½-in. fire hose, 20 lengths to be furnished with couplings and 10 lengths without couplings.

Furniture. — U. S. Veterans Bureau, Supply Division, Washington, D. C. — Receives bids June 6 for furniture for 6 months period ending Dec. 31, 1927 or fiscal year ending June 30, 1928.

Garage. — Treasury Dept., Office of Supvg. Architect's, Washington, D. C. — Receives bids June 21 to construct garage for U. S. Quarantine Station, New York, N. Y.

Gypsum Wall Board. — Marine Corps, Quartermaster's Dept., Washington, D. C. — Receives bids May 31 to furnish 13,320 sq. ft. gypsum wall board; delivery Quantico, Va. Sch. 666.

Hardware. — U. S. Veterans Bureau, Supply Division, Washington, D. C. — Receives bids June 6 for wrought brass box corners, locks, etc., various sizes.

Hardware. — Marine Corps, Quartermaster's Dept., Washington, D. C. — Receives bids June 1 to furnish hardware; delivery Quantico, Va. Sch. 666.

Highway Construction. — State Highway Dept., Dover, Del., receives bids until June 15, for following approximate quantities:

Wilmington Bridge Approaches. — Contract 72B, 350 cu. yds. excavation; 5000 cu. yds. selected borrow; 100 tons broken stone base course; 1000 cu. yds. cement concrete pavement; 7500 sq. ft. cement concrete sidewalk; 200 cu. yds. class "A" concrete; 10,000 lbs. reinforcement; 150 lin. ft. 18-in. R. C. pipe; 50 lin. ft. 24-in. R. C. pipe; 100 lin. ft. relaid pipe; 60 sq. yds. class "A" concrete gutter; 1100 lin. ft. armored concrete curb; 1 thousand ft. B. M. sheet piling; 3600 lbs. cast iron gratings.

Ice. — Marine Corps, Quartermaster's Dept., Washington, D. C. — Receives bids June 17 to furnish ice during fiscal year beginning July 1, 1927, at Boston, Mass.; Hingham, Mass.; New London, Conn.; New York, N. Y.; Annapolis, Md.; Yorktown, Va.; Key West, Fla.; Pensacola, Fla.; New Orleans, La., and Puget Sound, Wash. Sch. No. 3-1928.

Laundry Service. — Marine Corps, Quartermaster's Dept., Washington, D. C. — Receives bids June 16 to furnish laundry service during year beginning July 1, 1927 at Boston, Mass.; Hingham, Mass.; Newport, R. I.; New London, Conn.; Iona Island, N. Y.; Lake Denmark, N. J.; Lakehurst, N. J.; New York, N. Y.; Annapolis, Md.; South Charleston, S. C.; Key West, Fla.; Pensacola, Fla.; New Orleans, La.; Great Lakes, Ill.; Bremerton, Wash., and Guantanamo, Cuba. Sch. No. 2-1928.

Levee. — Panola Quitman Drainage Dist., Lomax B. Lamb, Marks, Miss. — Receives bids June 2 for constructing 500 ft. levee near Asa, Miss., 15,000 cu. yds. embankment; Elliott & Harman Engineering Co., Engrs., McCall Bldg., Memphis, Tenn.; Geo. D. Montgomery, resident Engr., Charleston, Miss.

Linen Marker. — U. S. Veterans Bureau, Supply Division, Washington, D. C. — Receives bids June 1 for linen marking machine with master die and set removal dies, etc., for U. S. V. Hospital, Fort Lyon, Colo.

Looms and Equipment. — U. S. Veterans Bureau, Supply Division, Washington, D. C. — Receives bids June 3 for floor looms and equipment, supplied in quantities as ordered during fiscal year ending June 30, 1928.

Machinery and Supplies. — Board of Awards, F. A. Dolfield, City Register, Baltimore, Md., receives bids June 1 for machinery equipment, tools and supplies for Dept. of Education, John H. Roche, Sec. Board of School Comr., as follows:

- (1) **Automobile Shops.**
- (2) **General Shops.**
- (3) **Health Suite Supplies.**
- (4) **Mechanical Drawing.**
- (5) **Sheet Metal Shops.**

Masonry Dam. — See Water Works.

Mattresses. — U. S. Veterans Bureau, Supply Division, Washington, D. C. — Receives bids June 3 for mattresses, for 6 months' period ending Dec. 31, 1927.

Miscellaneous Supplies. — Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C. — Receives bids June 2 to furnish following. Blank forms and information (Circular 1806) on application of offices of Panama Canal: Ast. Purchasing Agents at Fort Mason, San Francisco, Calif.:

Automatic filing machine; pipe threading machine; pumps; school furniture; bentwood chairs; blackboard; files; reamers; oil and grease guns; lathe chucks; planes; pipe tongs; monkey wrenches; sledge hammers, etc.

Mop Wringer and Buckets. — U. S. Veterans Bureau, Supply Division, Washington, D. C. — Receives bids June 1 for mop wringers and buckets.

Motor Boat. — District Comr., Room 509 District Bldg., Washington, D. C. — Receives bids June 13 to furnish one motor patrol boat.

Painting. — Board of Awards, F. A. Dolfield, City Register, Baltimore, Md. — Receives bids June 1 for interior and exterior painting at Baltimore City Hospitals, Eastern Ave. extended; C. H. Osborne, Chief, Bureau of Bldgs.

Painting. — Board of Awards, F. A. Dolfield, City Register, Baltimore, Md. — Receives bids June 1 for painting plastered walls and ceilings of Irvington, Rognel Heights and Roland Park Schools; H. G. Perring, Supvg. Engr.

Painting, etc. — U. S. Courthouse, R. W. Humphreys, Custodian, Galveston, Tex. — Receives bids June 2 for exterior painting, corrice repairs, etc.

Paving. — Watonga, Okla. See Construction News — Roads, Streets, Paving.

Paving. — Frankfort, Ky. See Construction News — Roads, Streets, Paving.

Pipe (Cast Iron). — See Water Works.

Pipe (Cast Iron). — See Sewers.

Pipe (Concrete). — See Sewers.

Pipe. — See Sewers.

Printing, Binding, etc. — Frank D. Grist, Comr. of Labor and Printing and Sec. to Printing Coms., Charlotte, N. C. — Receives bids June 1 for printing, binding and die-stamping for State of N. Carolina for period beginning July 1, 1927 ending June 30, 1929.

Pumps (Deep Well). — See Water Works.

Pumping Equipment. — See Water Works.

Refrigerators. — U. S. Veterans Bureau, Supply Division, Washington, D. C. — Receives bids June 2, for refrigerators.

Reinforcing Steel. — See Sewers.

Retaining Wall. — U. S. Engineer Office, Buffalo, N. Y. — Receives bids May 25 to construct steel sheet pile retaining wall at Black Rock lock, Buffalo, N. Y.

Road. — State of Maryland receives bids for 4 roads. See Construction News — Roads, Streets, Paving.

Road. — Sarasota, Fla. — receives bids for 2 roads. See Construction News — Roads, Streets, Paving.

Road. — State of West Virginia receives bids for 3 roads. See Construction News — Roads, Streets, Paving.

Road. — State of Louisiana receives bids for 3 roads. See Construction News — Roads, Streets, Paving.

Road. — State of Kentucky receives bids for 10 roads. See Construction News — Roads, Streets, Paving.

Steel Beds and Springs. — U. S. Veterans Bureau, Supply Division, Washington, D. C. — Receives bids May 31 for steel beds and springs.

Sewers. — Town of Claxton, Ga., J. M. Sconyers, Mayor, Wm. M. Crook, Consil. Engr., Macon — Receives bids June 6 for furnishing labor, tools and equipment, taking materials from cars and installing same, furnishing materials, equipment and labor for following work: 16,100 ft. of 8-in., 6750 ft. of 10-in., 2150 ft. 12-in., 1550 ft. of 15-in. sewers, flush tanks, disposal plant; wye branches.

Sewers. — City of Jackson, Miss., A. J. Johnson, Clk. — Receives bids June 7 for 20 miles sanitary sewer construction, also for sanitary sewer pipe.

Sewers. — John M. Murch, County Auditor, Galveston, Tex. — Receives bids May 28 for 61st and Ave. T½ to Calvary cemetery drain.

Sewers. — City of Waco, Tex., E. E. McAdams, Mgr., J. H. Strange, Engr. — Receives bids June 7 for furnishing materials, labor and constructing complete extension to sewer system; approximate quantities are 21,740 ft. 6-in., 7180 ft. 8-in., 1660 ft. 10-in., 6300 ft. 12-in. sewers, wyes, manholes, and for vitrified salt glazed sewer tile and concrete sewer pipe.

Sewers. — City of Tampa, Fla., W. Lesley Brown, Mgr. — Receives bids May 31 for constructing sanitary sewage disposal plant at Louisiana Ave. and Hillsborough River, approximate materials, concrete pipe, Class A cast iron pipe, galvanized wrought iron anchor bolts and rings, manhole frames and covers, galvanized wrought iron screens, lumber and planking, Class A concrete, 20,002 lbs. reinforcing steel, concrete pipe to be relaid.

Sewers. — City of Sturgis, Ky., W. J. Kern, Mayor, Black & Veatch, Consil. Engrs., Kansas City, Mo., Paducah, Ky. — Receives bids June 14 for furnishing all tools, labor and materials and constructing sanitary sewer system and sewage disposal plant, following approximate quantities:

- (1) **Manholes** — 74 manholes and 6 drop manholes.

(2) Pipe (Cast Iron and Vitrified). — 33,938 ft. of 8-in., 4745 ft. 10-in., 940 ft. of 12-in. vitrified sewer pipe and 60 ft. of 8-in. Class A cast iron pipe.

(3) Pump and Chlorinator House.

(4) Tank. — Imhoff tank and 34 manual operated flush tanks, chlorinating tank.

(5) Sludge Filter and Trench — maximum depth of trench 16 ft.

Sewers. — City of Huntington, W. Va., A. B. Maupin, City Engr. — Receives bids June 6 for constructing lateral sewer in Guyan St. from Bridge St. to Ohio River.

Shovel (Power). — Warren County Highway Coms., Geo. M. Sudduth, Sec., Room 3, Bonelli Bldg., Vicksburg, Miss. — Receives bids June 8 to furnish one full swing convertible power shovel, to be used in mining gravel from widely separated pits: include all parts, buckets, appurtenances and rigging to convert into working shovel, dragline, hoist, orange peel, etc., together with

CONSTRUCTION DEPARTMENT

drop frame platform trailer; entire equipment f. o. b. Vicksburg.

Street. — Pulaski, Va. See Construction News—Roads, Streets, Paving.

Street. — Oxford, Miss. See Construction News—Roads, Streets, Paving.

Street. — Tampa, Fla. See Construction News—Roads, Streets, Paving.

Street. — Venice, Fla. See Construction News—Roads, Streets, Paving.

Truck. — Board of Awards, F. A. Dolfield, City Register, Baltimore, Md.—Receives bids June 1 to furnish one $1\frac{1}{2}$ ton truck for Dept. of Public Works, Bureau of Transportation, O. F. Lackey, Head of Bureau.

Water Works. — City of Burlington, N. C., Earl B. Horner, Mayor—Receives bids May 31 for materials and constructing gravity section masonry dam and impounding reservoir on Stony Creek; 4700 cu. yds. concrete; 1000 cu. yds. earth excavation; 500 cu. yds. rock excavation; 100 acres clearing land; A. C. Linberg, Constl. Engr.

Water Works. — City of Teague, Tex., E. B. St. Clair, Mgr., Hawley & Freeze, Cotton Exchange Bldg., Fort Worth—Receives bids June 9 for extension of water works system, cost \$40,000; 1000 ft. of cast iron pipe; 100,000 gal. concrete storage reservoir; water wells, pumping equipment.

Well Drilling. — Trustees of Woolmarket Consolidated School, Gulfport, Miss. — Receives bids June 3 for furnishing labor and material and equipment for sinking artesian well; plans, etc., from office of County Supt. of Education, Gulfport.

Woodworking Tools. — U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids June 16 to furnish manual training lathes, bandsaws, jointers, Universal bench saws, for period 6 months ending Dec. 31, 1927.

X-Ray Equipment and Supplies. — U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids June 3 for X-ray equipment and supplies, in quantities as may be ordered during year ending June 30, 1928.

X-Ray Cabinets. — U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids June 3 for cabinets for filing X-ray films, 14-in. high, 17-in. wide.

X-Ray Intensifying Screens. — U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids June 2 for X-ray intensifying screens, in sizes 5x10-in., 10x12-in. and 14x17-in., about 250 each size.

Zeolite Water Softening System. — U. S. Veterans Bureau, Const. Division, Arlington Bldg., Washington, D. C.—Receives bids June 14 to furnish and install zeolite softening system in boiler room, U. S. V. Hospital No. 37, Waukesha, Wis.

Dublin Hill-Wooden Hawk 5.70 miles, Contract CS-58—clearing, grubbing, excavating, borrow, gravel, cement, concrete pavements, class "A" concrete, reinforcing steel, corrugated metal pipe, reinforced concrete pipe, relaid pipe, wire cable guard rail, etc.

Building Materials and Equipment

Howell Construction Co., Philadelphia, Miss., wants prices on following for \$80,000, 3-story and basement Hotel Benwalt:

Elevators.

L. J. Gentry, Contr., Henrietta, Texas, wants prices on following for \$40,000 High School at Megargel:

Limestone.

Roofing—built-up.

Steel Sash and Trim.

Tile—hollow.

Ventilators.

Flooring—composition, hardwood, linoleum, rubber tile, tile.

Metal Ceilings.

Metal Doors.

Plaster Board.

Steel Sash and Trim.

Terra Cotta Trim.

Tile—hollow, interior.

Chas. H. Salley, Archt., Res. Mgr., 7 Court Square, Orangeburg, S. C., wants manufacturers to send catalogs, etc., to complete file for new office, just being established; interest to architects, engineers, contractors.

Palmer-Spivey Construction Co., Augusta, Ga., and Charlotte, N. C., wants prices on following for remodeling bank, Augusta:

Flooring—tile.

Limestone.

Marble.

Roofing—built-up.

A. J. King Realty Co., 12 E. Ninth St., Kansas City, Mo., wants prices on following for about 150 dwellings and community centers:

Cast Stone.

Electric Refrigerators.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Manufacturers Record

Manske & Bartling, Inc., Archts., 410 N. Euclid Ave., St. Louis, Mo., wants prices on following for \$150,000 hotel at St. Charles:

Flooring—composition, terrazzo and tile.

Marble.

Metal Doors.

Plaster Board.

Steel Sash and Trim.

Terra Cotta Trim.

Tile—hollow and interior.

J. O. Everett, Contr., 603 Melba Bldg., Dallas, Texas, wants prices on following for \$100,000 High School at Buckner Orphans Home:

Cast Stone.

Flooring—Nailcrete and tile.

Limestone.

Metal Doors.

Tile—interior.

Ventilators.

Dalton Hooper, owner-builder, 4218 Austin St., Houston, Texas, wants prices on following for five \$22,000 apartments:

Flooring—hardwood and tile.

H. A. Miller Contr., 812 Builders Exchange Bldg., San Antonio, Texas, wants prices on following for \$10,000 store:

Metal Ceilings.

Roofing—built-up.

Tile—hollow.

Ventilators.

Charles Weitz' Sons, Des Moines, Iowa, wants prices on following for \$75,000 post office, Lancaster, S. C.:

Flooring—terrazzo.

Electric Work.

Heating System.

Marble.

Millwork.

Plumbing.

Roofing—built-up.

Sheet Metal Work.

A. L. Woas Construction and Realty Co., 6726 Olive St. Rd., St. Louis, Mo., wants prices on following for \$27,000 dwelling:

Electric Refrigerators.

Flooring—hardwood, linoleum, tile.

Incinerator.

Tile—gypsum.

Francis L. Abreu, Archt., Bryan Arcade, Fort Lauderdale, Fla., wants prices on following for \$13,800 fire station:

Cast Stone.

Flooring—terrazzo, tile.

Marble.

Steel Sash and Trim.

Tile—hollow.

W. Frank Ault, Contr., 327 Moore & Turner Bldg., Little Rock, Ark., wants prices on following for \$300,000 Y. M. C. A.:

Metal Doors.

Steel Sash and Trim.

Study & Farrar, Archts., 1367 Arcade Bldg., St. Louis, Mo., wants prices on following for \$900,000 municipal service building:

Elevators.

Flooring—tile.

Limestone.

Marble.

Metal Doors.

Roofing—built-up.

Steel Sash and Trim.

Terra Cotta Trim.

Ventilators.

Wire Glass.

Charles J. Forbes, Archt. and Pres. of Forbes Realty Co., Babson Park, Fla., wants prices on building materials and furnishings for 8 hotel cottages.

York Ice Machine Sales.

In the period from March 31 to April 30 the York Manufacturing Company of York, Pa., made 291 sales and installations of its ice-making and refrigerating machinery throughout the country, including 55 at various points in the South as follows: Birmingham, Ala.; McGehee, Ark.; Washington, D. C.; De Land, Jacksonville, Pensacola, Port St. Joe and Tampa, Fla.; Albany, Augusta, Glenville and Macon, Ga.; De Ridder, New Orleans and Ponchatoula, La.; Elkton, Frederick, Laurel and Midland, Md.; Biloxi, Miss.; Kansas City and St. Louis, Mo.; Durham and Greensboro, N. C.; Guthrie, Hugo, Okmulgee and Woodward, Okla.; Carthage, Johnson City, Morristown, Memphis and Nashville, Tenn.; Cameron, Commerce, Ennis, Llano, Roanoke and Victoria, Texas; Clifton Forge, Fredericksburg, Newport News, Pulaski and Richmond, Va.; Montgomery and Nitro, W. Va. At several places of importance two or more sales and installations were made.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Have Several Building Contracts.

The H. K. Ferguson Company, engineers and builders, Cleveland, Ohio, have a contract to design and construct the first unit of a lamp factory for the Tokyo Electric Company at Kawasaki, Japan, which is a subsidiary of the General Electric Company. The building will have a steel frame, with concrete walls, floors and roof. It will be 400 feet long and 80 feet wide. It is designed to withstand earthquakes. W. N. Thompson sailed from Seattle for Japan April 28 with plans and specifications, and the construction force in Japan under T. H. Mitchell will immediately begin work. The Ferguson organization also has the general contract for an extension of the factory of the O. M. Edwards Company, Syracuse, N. Y., which will be in two parts—one of them 160 by 60 feet, five stories, of reinforced concrete, and the other one story, 120 by 120 feet, with steel frame. Other recently received contracts which this firm has include two building contracts for the Procter and Gamble Company, soap manufacturers, of Cincinnati, Ohio; one for the Rand Kardex Bureau, Inc., Tonawanda, N. Y., and another for the Grasselli Chemical Company of Cleveland, Ohio.

Box Crane and Hoist Representatives.

The Box Crane and Hoist Corporation of Philadelphia, Pa., formerly Alfred Box & Co., Inc., has recently established sales connections as follows: Gray Foundry Company, Poultney, Vt.; F. R. Quigley, 1402 Lexington Building, Baltimore, Md.; Maintenance Engineering Company, 2000 Harrington street, Houston, Texas; Spencer & Morris, 430 East Third street, Los Angeles, Cal.; R. E. Condit, Dayton, Ohio; W. J. Laufenburg, Kansas City, Mo.; W. F. Moody & Co., Little Rock, Ark.; St. Louis Structural Steel Company, 1217 Syndicate Trust Building, St. Louis, Mo.; McNeely Equipment Company, 707 Guaranty Building, Indianapolis, Ind.; J. F. Bruce, 1017 Engineers Building, Cleveland, Ohio.

Arthur C. Langston Retires.

Jenkins Brothers, manufacturers of valves, New York city, have sent out announcements to their customers and friends expressing regret for the retirement of Arthur C. Langston as an active representative of the firm, with which he became associated almost 30 years ago. He first traveled sales territory in the South from Virginia to Texas every year, but he also made occasional trips to Cuba, Mexico and other West Indian and Central American countries. It is now his wish to retire from active duty to his home in Columbia, Tenn.

Certain-Teed Products for Flood Area Work.

Officials of the Certain-Teed Products Corporation report a large jobbing demand from the Mississippi flood area, not only for the construction of temporary camps for refugees but for permanent reconstruction of damaged or destroyed buildings. Further substantial orders from that area are expected. The spring demand from all sections is unusually heavy. This includes gypsum board and all other lines.

Planters Manufacturing Company Installing Moore Dry Kiln.

The Planters Manufacturing Company, Suffolk, Va., is increasing kiln-drying capacity of its West Norfolk plant with the installation of an additional dry kiln. The kiln will be 17½ by 150 feet in dimension, for drying baskets and designed by the Moore Dry Kiln Company of Jacksonville, Fla.

A Reading Iron Office Moves.

The New York city offices of the Reading Iron Company, Reading, Pa., manufacturer of genuine wrought-iron pipe, were removed on April 22 from the suite they have occupied for the past nine years at 99 John street to 30 Church street. The new space includes Rooms 318-320 and secures for H. S. Carland, district sales representative, and his staff more commodious quarters.

Western Railroad Representative for Reading Iron Company.

Harry L. Shepard, formerly associated in the department of the chemist and engineer of tests of the Union Pacific Railroad, has been appointed technical representative in the Chicago territory of the Reading Iron Company, Reading, Pa., manufacturers of wrought-iron pipe, and will represent them among Western railroads. Mr. Shepard is a member of the American Chemical Society.

New Type of Bulkhead.

Carl Weber, president of the Shore-Line Builders, Inc., Jacksonville, Fla., in the course of a letter to the MANUFACTURERS RECORD, writes: "It is a well-known fact the proper construction of seawalls and bulkheads is one of the greatest engineering problems of the present time and of special interest to the Southern States, with their enormous stretches of low and unprotected shore lines. Millions of dollars have heretofore been thrown away by either insufficient or unnecessarily expensive seawalls, and I honestly believe that I am giving a great service to the Southern States by offering a method of construction which combines greatest possible stability and permanency and which is being built at a cost that is even below that of perishable, antiquated timber bulkheads."

Marsh-Capron Mixer for Small Jobs.

A new concrete mixer designed especially for small paving jobs, curb work and gutter work, or combined curb and gutter work, also for large floors which may be laid in slabs and for sidewalk work, is a new development produced by the Marsh-Capron Company of Chicago, Ill. This machine is made in two sizes, one having a capacity of from 30 to 90 yards per eight-hour day and another that will handle from 60 to 125 yards per day. Its general design is that of a miniature paver, being equipped with a standard power loading skip, and with a swing spout and distributing chute which can work through an arc of 180 degrees. It is so mounted that in a few minutes it can be changed from an end-discharge mixer to a side-discharge mixer by swinging the mixer on the under-carriage. Thus it can be used for both alley work and yet soon be ready for building jobs.

Office Removed.

The New York district office of the Reading Chain and Block Corporation of Reading, Pa., has been moved from 90 West street, New York city, to Room 1103 Park Building, 9-15 Park Place, New York city. R. E. Nelles is in charge.

Agents in Georgia and Alabama.

N. A. Strand & Co., 5001-5009 North Lincoln street, Chicago, Ill., have appointed the Fulton Supply Company of Atlanta, Ga., to represent them exclusively for the State of Georgia on their line of flexible shafts and equipments; also the Moore-Handley Company of Birmingham, Ala., in its territory.

Executive Offices Moved.

The executive offices of the Kaustine Company, Inc., have been moved from Buffalo, N. Y., to Perry, N. Y., where the main manufacturing plant is located. It is felt that by having the executive offices in close contact with the factory the company will be able to give customers more prompt and efficient service.

Two Moore Dry Kilns Ordered for Chair Plant.

The Maiden Chair Company of Maiden, N. C., is reported as having let contract to the Moore Dry Kiln Company, Jacksonville, Fla., for installation of two fully equipped dry kilns. They are to be of the Progressive and End-Pile type, each 18 by 84 feet in dimension, and designed for drying chair stock.

Austin Office Announcements.

The Austin Company, engineers and builders, whose headquarters are in Cleveland, Ohio, has opened a branch office in Cincinnati, Ohio, with H. L. Cornelison in charge. Until recently Mr. Cornelison was manager of the Miami (Fla.) office. The new Cincinnati office is on the sixth floor of the Dixie Terminal Building. Territory covered by it includes Southern Ohio, Southern Indiana and Kentucky. On May 1 the Chicago offices of the Austin Company moved to larger quarters at 510 North Dearborn street.

Mundy Hoisting Engine Distributors.

The Mundy Sales Corporation, distributor for the J. S. Mundy Hoisting Engine Company, 30 Church street, New York, has appointed the Funkhouser Equipment Company, 2405 Jefferson street, Kansas City, Mo., as exclusive distributor for that sales territory. V. E. Funkhouser of that city has been engaged in this field for many years. The Johnson-Beckwith Machinery Company, Union Bank Building, Davenport, Iowa, has been appointed exclusive distributor for that sales territory. Mr. Johnson was formerly president of the Davenport Locomotive Works and Mr. Beckwith, his associate, was also with that company.

Two New Climax Offices Opened.

Two new men have been added to the sales organization of the Climax Engineering Company, Clinton, Iowa. H. P. McCullough will be at Houston, Texas, with offices at 328 Chronicle Building, and E. H. Crippen will make his headquarters at Fort Worth, Texas, with offices at 4023 West Seventh street. Both men are experienced in oil-field practice, and have been trained at the factory in Clinton with a full understanding of design and use of the Climax oil-field units. The National Supply Companies are exclusive oil-field distributors of the company's engines, and the new sales representatives will work with them in distributing its products.



— PROPOSALS —

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close June 20, 1927.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., MAY 20, 1927. SEALED BIDS will be opened in this office at 3 P. M. JUNE 20, 1927, for furnishing and installing one new heating boiler, connections, etc., in the U. S. P. O. and Ct. H., Victoria, Texas. Drawings and specifications may be obtained from the Custodian, U. S. P. O. and Ct. H., Victoria, Texas, or from this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close June 7, 1927.

Sealed proposals will be received at the office of the General Treasurer, National Home for Disabled Volunteer Soldiers, until 1 o'clock P. M. (Eastern standard time) June 7, 1927, and then opened, for furnishing and delivering supplies (clothing, chinaware, bedding, stationery, etc.), for the year ending June 30, 1928. Copies of instructions and specifications can be had upon application to C. W. Wadsworth, General Treasurer, National Military Home, Dayton, Ohio.

Bids close May 31, 1927.

Bridges

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building three Bridges as follows:
Carroll County, Cont. Cl-69—One single 26-foot 0-inch span reinforced concrete arch bridge over Snowden Creek, on Liberty road 1 mile west of North Branch, together with necessary fill, etc.

Frederick County, Cont. F-107—One single 50-foot 0-inch span reinforced concrete arch bridge over Flat Run, on road from Emmitsburg to Pennsylvania State Line, together with necessary fill, roadway, etc.

Frederick County, Cont. F-108—One single 30-foot 0-inch span reinforced concrete girder bridge over Little Hunting Creek on Frederick-Thurmont road, near Catoctin, together with necessary temporary bridge, etc.

(Separate bids on each bridge.)
will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Md., until 12 M. on the 31st day of May, 1927, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 12th day of May, 1927.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close June 8, 1927.

Bridges

Charleston, W. Va.

Sealed proposals will be received by the State Road Commission of West Virginia at its office in Charleston, West Virginia, until 10 o'clock A. M. on the 8th day of June, 1927, and said proposals will be publicly opened and read immediately thereafter at the Kanawha County Courthouse, Charleston, W. Va., for the construction of the following bridges on State Roads:

Honey Creek Bridge No. 1042, Project

157-B, Fayette County—Steel Deck Truss Superstructure—one 150-ft. and four 25-ft. spans. Certified check \$900.

Cotton Hill Station Bridge No. 1043, Project 157-B, Fayette County—Across New River. Steel Deck Truss Superstructure—three 185-ft. and five Plate Girder Spans. Total length approximately 800 feet. Certified check \$4000.

Salt Creek Bridge No. 1094, Project 3139, Mason County—Concrete Deck Girder, with Concrete Substructure—two 30-ft. and one 45-ft. spans. Certified check \$1600.

Tombleson Bridge No. 1099, Project 139-B, Mason County—Concrete Deck Girder, with Concrete Substructure—two 30-ft. and one 45-ft. spans. Certified check \$1000.

Rothsburg Bridge No. 1062, Project 3326-A, Putnam County—Concrete Deck Girder, with Concrete Substructure—two 45-ft. and one 50-ft. spans. Certified check \$1200.

Proposals will be received only upon State Standard forms, in accordance with plans, specifications and estimates of quantities therefor, which standard forms, plans, specifications and estimates of quantities may be obtained from the office of the Division Engineer in whose territory the proposed construction is located or from the office of the State Road Commission, in Charleston, West Virginia.

Each proposal must be accompanied by a certified check for the amount noted.

The right is reserved to reject any or all proposals.

THE STATE ROAD COMMISSION OF
WEST VIRGINIA.
E. B. CARSKADON, Secretary.

Bids close June 15, 1927.

Highway Construction

Dover, Del.

Sealed proposals will be received by the State Highway Department at its office, Dover, Delaware, until 2 o'clock P. M. June 15, 1927, and at that place and time publicly opened, for contracts involving the following approximate quantities:

CONTRACT 72B

WILMINGTON BRIDGE APPROACHES

350 Cu. Yds. Excavation.
500 Cu. Yds. Selected Borrow.
100 Tons Broken Stone Base Course.
1,000 Cu. Yds. Cement Concrete Pavement.
7,500 Sq. Ft. Cement Concrete Sidewalk.
260 Cu. Yds. Class "A" Concrete.
10,000 Lbs. Reinforcement.
150 Lin. Ft. 18-in. R. C. Pipe.
50 Lin. Ft. 24-in. R. C. Pipe.
100 Lin. Ft. Relaid Pipe.
60 Sq. Yds. Class "A" Concrete Gutter.
1,100 Lin. Ft. Armored Concrete Curb.
1 Thousand Ft. B. M. Sheet Piling.
3,600 Lbs. Cast-Iron Gratings.

CONTRACT CS8

DUBLIN HILL-WOODEN HAWK,

5.70 MILES

3 8-10 Acres Clearing.
3 8-10 Acres Grubbing.

16,000 Cu. Yds. Excavation.
2,000 Cu. Yds. Borrow.
2,500 Cu. Yds. Gravel.
5,020 Cu. Yds. Cement Concrete Pavement.

OR 5.020 Cu. Yds. Cement Concrete Pavement (Slag Aggregate).

120 Cu. Yds. Class "A" Concrete.
3,800 Lbs. Reinforcement.

450 Lin. Ft. 15-in. Corrugated Metal Pipe.

168 Lin. Ft. 15-in. R. C. Pipe.
112 Lin. Ft. 18-in. R. C. Pipe.
140 Lin. Ft. 24-in. R. C. Pipe.
112 Lin. Ft. 30-in. R. C. Pipe.

30 Lin. Ft. 36-in. R. C. Pipe.
150 Lin. Ft. Relaid Pipe.

800 Lin. Ft. Wire Cable Guard Rail.

2,000 Lin. Ft. Wood Shoulder Curb.

Performance of contract shall commence within ten (10) days after execution of the contract and be completed as specified.

Monthly pavements will be made for 90 per cent of the construction completed each month.

Bidders must submit proposals upon forms provided by the Department.

Each proposal must be accompanied by a surety bond, certified check or money to the amount of at least ten (10%) percentum of the total amount of the proposal.

The envelope containing the proposal must be marked "Proposal for the construction of State Highway Contract No."

The contract will be awarded or rejected within twenty (20) days from the date of opening proposals.

The right is reserved to reject any or all bids.

Detailed plans may be seen and index plans and specifications may be obtained upon receipt of two dollars (\$2.00), which amount will not be refunded.

STATE HIGHWAY DEPARTMENT,
Dover, Delaware.

Bids close June 9, 1927.

Road Construction

Charleston, W. Va.

Sealed proposals will be received by the State Road Commission of West Virginia at its office in Charleston, West Virginia, until 10 o'clock A. M. on the 9th day of June, 1927, and said proposals will be publicly opened and read immediately thereafter at the Kanawha County Courthouse, Charleston, W. Va., for the construction of the following sections of State Road:

Project 3243, Greenbrier County—6.25 miles of Ronceverte-Second Creek road for paving with Modified Bituminous Macadam. Certified check \$6000.

Project 3238 or F. A. 136-C, Greenbrier County—5.0 miles of Renick Valley-Renick Road for Grading and Draining. Certified check \$4000.

Projects 3188 and 3061, Wayne County—14.3 miles of the Marrowbone-Echo Road for Stone, Slag or Gravel Surfacing. Separate bids will be received for material and for placing on road.

Project 3278 or F. A. 162-A, Lewis County—7.0 miles of the Weston-Lynn Road for paving with Cement Concrete. Certified check \$9000.

Project 3278 or F. A. 162-B, Lewis County—5.86 miles of the Weston-Lynn Road for Stone Base Course. Certified check \$4800.

Project 3203-D or F. A. 151-D, Preston County—2.3 miles of the Taylor County Line towards Fellowsville Road for paving with Cement Concrete, Brick or Bituminous Macadam. Certified check \$3000.

Project 3229 or F. A. 151-C, Taylor County—6.28 miles of the Grafton-Preston County Line Road for paving with Cement Concrete, Brick or Bituminous Macadam. Certified check \$8800.

(Both projects to be let in one contract.)

Project 3384, Webster County—3.5 miles of the Webster Springs-Point Mountain Road for Grading and Draining. Certified check \$3000.

Project 3353, Jefferson County—4.5 miles of the Dailey Bridge-Virginia State Line Road for Grading and Draining. Certified check \$3000.

Project 3213-C, Pendleton County—4.5 miles of the Cave-Virginia State L'ne Road for Grading and Draining. Certified check \$2600.

Proposals will be received only upon State Standard forms in accordance with plans, specifications and estimates of quantities therefor, which standard forms, plans, specifications and estimates of quantities may be obtained from the office of the Division Engineer within whose territory the proposed construction is located or from the office of the State Road Commission, in Charleston, W. Va.

Each proposal must be accompanied by a certified check for the amount noted.

The right is reserved to reject any or all proposals.

THE STATE ROAD COMMISSION OF
WEST VIRGINIA.
E. B. CARSKADON, Secretary.

Additional Proposals on Pages 121-123.

The Great Interpreter

Another important factor in the betterment of American business is the enlightened attitude of modern business men toward the helpful service of Modern Accountancy.

Day book and ledger—mute in their dry old pages of yesterday—are alive and eloquent today. Figures are made to talk—talk all the time; and Modern Accountancy is the Great Interpreter.

Progressive Business takes no step without this Great Interpreter. In the Budget "he" lives and guides. His sure and constant hand controls the throttle of costs. His outlook on trade and financial conditions is the basis of the most practical kind of vision.

He analyzes—arranges—coordinates. He balances, stabilizes and compels improvement. Management is *his* steward. His is the material brain of executive control.

Modern Business, and the modern commonwealth, owe much to this Great Interpreter. And the pleasantest thought is that *both* are so willing to listen and so eager to accept his interpretation.

ERNST & ERNST

ACCOUNTANTS AND AUDITORS
SYSTEM SERVICE

NEW YORK
PHILADELPHIA
BOSTON
PROVIDENCE
BALTIMORE
RICHMOND
WINSTON-SALEM
WASHINGTON
BUFFALO
ROCHESTER

CLEVELAND
AKRON
CANTON
COLUMBUS
YOUNGSTOWN
TOLEDO
CINCINNATI
DAYTON
MEMPHIS

DETROIT
GRAND RAPIDS
KALAMAZOO
PITTSBURGH
WHEELING
ERIE
LOUISVILLE
ATLANTA
MIAMI
TAMPA

CHICAGO
MILWAUKEE
MINNEAPOLIS
ST. PAUL
INDIANAPOLIS
DAVENPORT
ST. LOUIS
KANSAS CITY
OMAHA

NEW ORLEANS
JACKSON
DALLAS
FT. WORTH
HOUSTON
SAN ANTONIO
WACO
DENVER
SAN FRANCISCO
LOS ANGELES

FINANCIAL NEWS

Bond Issues Proposed

Ala., Fairfield—Improvement—City, G. C. Culpepper, Clk., receives bids July 1 for \$34,000 bonds.

Ala., Fairfield—Funding—City, G. C. Culpepper, Clk., Treas., receives bids June 6 for \$80,000, 5%, \$1000 denom. bonds.

Ala., Mobile—City Comm., Harry T. Hartwell, Mayor, plans receiving bids for \$1,000,000 \$1000 denom. bonds.

Ala., Mobile—School—School Board considering issuing \$250,000 warrants.

Ala., Montgomery—School—City, J. L. Cobbs, Treas., plans selling \$1,350,000 5% bonds at public sale on May 24. 5-12

Ark., Little Rock—Road—State, Ralph Koonce, State Treas., receives bids June 7 for first \$13,000,000 installment of State Highway notes; \$1000 denom., 4 to 4 1/2%.

Fla., Bartow—School—Polk County Board of Public Instruction, Don Register, Chmn., receives bids May 27 for \$100,000 6% \$1000 denom. Special Tax School Dist. No. 53 bonds.

Fla., Brandon—School—Brandon Special School Tax Dist. voted \$42,000 bonds. Address Hillsborough County Board of Education, Tampa. 4-21

Fla., Crestview—Road—Okaloosa County Commrs. plan \$500,000 bond issue. 3-31

Fla., Green Cove Springs—Road—Clay County Commrs. considering issuing and selling \$90,000, 6%, \$1000 denom. bonds.

Fla., Hollywood—Street—City Comm. considering bond issue.

Fla., Miami—Courthouse—Dade County Commrs. plan selling \$2,500,000 5% \$1000 denom. bonds. 5-19

Fla., Ocala—School—Marion County Board of Public Instruction, H. G. Shealy, Supt., receives bids June 7 for \$14,000 \$500 denom. bonds; \$12,000, Summerfield Special Tax School Dist. No. 6; \$2000, Anthony Special Tax School Dist. No. 35.

Fla., Pensacola—Road—Escambia County considering \$150,000 bond issue; Langley Bell, County Clk.; F. B. Carter, County Judge.

Fla., Sanford—School—Seminole County Board of Public Instruction, Fred T. Williams, Chmn., receives bids June 11 for \$50,000 6%, \$1000 denom. Longwood Special Tax School Dist. No. 2 bonds; \$30,000 6%, \$1000 denom. Oviedo Special Tax School Dist. No. 3 bonds.

Fla., St. Petersburg—City Comm., authorized issuance of \$1,500,000 street paving and sewer bonds.

Fla., Starke—Highway—Bradford County plans \$100,000 bond issue. Address County Commrs.

Fla., Tampa—School—Hillsborough County Board of Public Instruction, W. D. F. Snipes, Sec., receives bids June 16 for \$42,000 6% \$1000 denom. Special Tax School Dist. No. 11 bonds.

Fla., Tampa—School—Hillsborough County Board of Public Instruction, W. D. F. Snipes, Sec., receives bids June 16 for \$25,000 6% \$1000 denom. Special Tax School Dist. No. 53 bonds.

Fla., Tampa—School—Hillsborough County, Mango Special Tax School Dist., votes June 7 on \$25,000 bonds. Address County Board of Education.

Fla., Wauchula—Hardee County, Lemon Grove School Dist., voted \$45,000 bonds. Address Board of Education.

Fla., West Palm Beach—Anticipation Notes—City Comm., Geo. O. Butler, Commr., plans \$3,500,000 notes.

Ga., Atlanta—City Hall, Viaduct—City, I. N. Ragsdale, Mayor, receives bids June 15 for \$2,000,000 bonds: \$1,000,000, city hall; \$1,000,000, viaduct. 5-19

Ga., Adel—School—Sparks-Adel School Dist. voted \$95,000 bonds. Address Cook County Board of Education. 4-28

Ga., Cordele—Hydro-Electric—Crisp County Commrs., J. J. Williams, Chmn., will sell in about 6 weeks \$1,250,000 bonds. 4-28

Ga., Hoboken—Hoboken Consolidated School Dist. votes May 28 on \$22,000 bonds. Address Board of Trustees.

Fla., Swainsboro—Road—Emanuel County Commrs., Geo. P. Edenfield, Clk., receives bids June 1 for \$200,000 4 1/2% \$1000 denom. bonds.

Ga., Tybee—Electric Distribution System—Town, Henry M. Buckley, Clk., receives bids May 30 at Room 202 American Realty Bldg., Savannah, Savannah office of Mayor and

Councilmen of Tybee, for \$22,000 5% \$1000 denom. bonds. 4-21

Ky., Danville—School—City voted \$90,000 bonds. Address City Clk.

Ky., Louisville—School—Board of Education plans selling \$1,000,000 bonds during summer.

La., Rayne—Drainage—Board of Commrs. of First Ward Drainage Dist., Acadia Parish, A. C. Chappus, Sec., receives bids May 31 for \$68,000 6% \$1000 denom. Gravity Sub-Drainage Dist. No. 1 bonds.

La., Roseland—Water Works—Mayor, W. E. Palmer, and Board of Aldermen, receive bids June 7 for \$42,000 6% bonds.

Md., Annapolis—Water Works—City, Allen Bowie Howard, Mayor, voted issuance of \$250,000 bonds. 4-28

Md., Betterton—Street—Town Commrs., Wm. A. Crew, Pres., receive bids May 31 at office of Turner & Son for \$25,000 5 1/2% \$1000 denom. bonds.

Md., Cumberland—City, M. R. Hast, Clk., plans selling in Sept. \$400,000 hospital, \$150,000 flood prevention bonds and notes. 4-14

Miss., Kosciusko—Sewer—City voted \$90,000 bonds. Address The Mayor. 5-19

Miss., Macon—Municipal Improvement—City, Mary B. Scott, Clk., votes June 7 on \$22,000 bonds: \$18,000, water works; \$4000, sewer; Charles Strong, Mayor.

Miss., Pontotoc—Road—Pontotoc County, M. J. Biffle, Clk., voted \$600,000 Road Dist. No. 2 bonds; receives bids June 8 for \$600,000 bonds. 4-21

Mo., Hurley—School Hurley Consolidated School Dist. voted \$13,500 bonds. Address Pres. Board of Trustees.

Mo., Macon—Lake—City votes June 3 on \$165,600 bonds for lake in Duck Creek basin. Address City Clk.

Mo., Morrisville—School—City voted \$25,000 bonds. Address City Clk.

Mo., St. Louis—Hospital—City, Mayor Miller, has tentative plans for \$5,000,000 bond issue.

Mo., Skidmore—School—City votes May 28 on \$75,000 bonds. Address City Clk.

Mo., Waco—School—City voted \$15,000 bonds; G. C. Pogue, Supt. of Schools.

N. C., Durham—Road, Bridge—Durham County Commrs., M. G. Markham, Register of Deeds, receives bids June 7 for \$250,000 \$1000 denom. not to exceed 6% bonds.

N. C., Gastonia—Road, Bridge—Gaston County Commrs., L. E. Rankin, Clk., receives bids June 6 for \$150,000 \$1000 denom. not to exceed 5% bonds.

N. C., Marion—Funding—McDowell County Commrs., R. F. Barnes, Clk., receives bids June 7 for \$50,000 6%, \$1000 bonds.

N. C., Mount Airy—School—Town votes June 28 on \$50,000 bonds; W. G. Snyder, Mayor. 5-19

Okl., Alva—Road—Woods County votes June 7 on \$800,000 5% bonds. Address County Commrs.

Okl., Blackwell—City voted \$50,000 bonds; \$15,000, sewer: \$35,000, water works; M. M. Lively, Mayor.*

Okl., Muskogee—Courthouse—Muskogee County voted July 12 on \$350,000 bonds. Address County Commrs. 5-12

Okl., Seminole—Water, Sewer—City voted \$100,000 bonds. Address City Clk.

Okl., Waurika—Road—Jefferson County plans \$600,000 bond election. Address County Commrs.

S. C., Columbia—Highway—Capital Highway Commrs., B. W. Crouch, Chmn., receive bids May 31 at office of State Treasurer, for \$2,000,000, 4 1/2% bonds of Richland, Lexington and Saluda Counties; John J. Earle, Sec.

S. C., West Greenville, Greenville—Water Works—Town plans voting Oct. 4 on \$65,000 bonds. Address Town Council.

S. C., Summerville—Water Works—City, H. H. Jessen, Mayor, voted \$130,000 bonds.

Tenn., Chattanooga—Water Works—Railroad and Public Utilities Comm., Nashville, authorized City Water Co. to issue \$600,000 first mortgage gold bonds. 5-19

Tenn., Johnson City—Funding—City, T. H. McNeil, Recorder, voted \$150,000 bonds. 4-21

Tenn., Kingsport—Improvement—City, F. L. Cloud, Mgr., receives bids June 21 for

\$63,400 bonds: \$23,100 6% \$1000 denom.; \$20,300 6%; \$20,000 5 1/2% \$1000 denom.

Tenn., Lewisburg—Road—Marshall County Court will call bond election. Address County Commrs.

Tenn., Murfreesboro—Rutherford County Court, J. P. Leathers, Clk., receives bids June 10 for \$30,000 5 1/2% \$1000 denom. Series 1924-A bonds.

Tenn., Signal Mountain—Water Works—City considering \$75,000 bond issue. Address City Clk.

Tenn., Watertown—Power Transmission Lines—City, W. J. Scott, Mayo, votes in July on \$10,000 bonds.

Tex., Amarillo—Road—Potter County, Sam B. Motlow, County Judge, voted \$500,000 bonds. 4-21

Tex., Amarillo—Municipal Improvement—City, Jeff D. Bartlett, Mgr., receives bids May 31 for \$1,300,000 bonds. 5-19

Tex., Bay City—Road—Matagorda County voted \$3,000,000 bonds: \$2,302,750, road; \$897,250, retire existing bonds. Address County Commrs. 5-5

Tex., Beaumont—Municipal Improvement—City, Ollie J. Bloyd, Mgr., plans calling election latter part of June on about \$1,200,000 bonds, including paving, drainage and improvements to South Texas Fair Grounds, wharf and dock repairing, etc. 4-28

Tex., Bellville—Road—Austin County, C. D. Duncan, County Judge, plans bond election.

Tex., Brownsville—School—Brownsville Independent School Dist. votes June 4 on \$350,000 bonds; School Board receives bids June 9 for \$350,000 bonds. 5-19

Tex., Brownwood—School—Board of Education plans calling \$350,000 bond election.

Tex., Columbus—Road—Colorado County, considering \$100,000 bond issue, in Road Dist. No. 3. Address County Commrs.

Tex., Dilley—Paving—City, Roy Busby, Mayor, voted June 9 on \$30,000 bonds.

Tex., Eldorado—Water Works—City, A. A. Bush, Sec., receives bids June 7 for \$40,000, 6%, \$1,000 denom. bonds.

Tex., Groesbeck—Road—Limestone County votes June 6 on \$75,000 bonds; H. F. Kirby, County Judge; J. B. Watson, Jr., County Auditor. 5-12

Tex., Hamilton—Paving—City votes June 14 on \$60,000 bonds. Address City Clk.

Tex., Hughes Springs—Water Works—City votes May 31 on \$40,000 bonds. Address City Clk.

Tex., Odem—School—City voted \$65,000 bonds. Address Pres. Board of Trustees.

Tex., Perryton—Sewer System and Disposal Plant—City, A. B. McAfee, Sec., votes June 14 on \$70,000 bonds; Devlin Engineering Co., 127 Central Bldg., Amarillo.

Tex., Point Isabel—School—City plans voting on \$40,000 bonds. Address City Clk.

Tex., Port Arthur—Canal Revetment—City, J. P. Logan, Mayor, votes May 28 on \$50,000 bonds. 5-5

Tex., Rusk—Road—Cherokee County votes June 18 on \$2,500,000 bonds. Address County Commrs.

Tex., San Angelo—Courthouse—Tom Green County voted June 11 on \$294,000 5% bonds; J. T. Mathison, County Judge. 5-19

Tex., Sinton—Road—San Patricio County plans \$1,500,000 bond election. Address County Judge.

Tex., Taylor—Paving—City, C. O. Dallet, Street Commr., plans about \$100,000 bond election.

Tex., Uvalde—School—City plans voting on about \$100,000 bonds. Address City Clk.

Tex., Uvalde—Road—Uvalde County plans \$150,000 bond election; H. B. Hodges, County Engr.

Va., Norfolk—City, Walter H. Taylor, 3rd, Director of Public Works, receives bids in June for \$650,000 bonds: \$178,000, 5% water works; \$472,000, 4 1/2%, general improvements.

Va., Portsmouth—Road, Bridge—Norfolk County Board of Supervs. receives bids June 14 for \$250,000 4 1/2% \$1000 bonds. 5-19

Va., Pulaski—Municipal, Improvement—City, E. W. Calfee, Mayor, voted \$160,000 bonds: \$100,000, street; \$60,000, sewer.

Va., Richmond—Indebtedness—Board of

(Continued on page 118)

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

THE PROGRESS OF THE SOUTH IS NOT SECTIONAL - BUT NATIONAL

The South's progress is increasing prosperity for the entire United States. (Opportunities for sound, remunerative investment in Southern bonds are comparable now to the opportunities existing when other great American industrial sections were developing. But the South holds marked advantages over past sectional developments. It long has possessed a stable population, organized facilities, and natural and industrial resources in tremendous volume. (Seasoned Southern securities offer the opportunity for conservative investments yielding higher than average returns. (We have been identified with conservative Southern financing for many years. Current recommendations will be furnished to investors gladly when requested.

WHERE PROGRESS FAVERS SOUND SECURITIES
... THE SOUTH ...

CALDWELL & COMPANY
400 UNION STREET NASHVILLE, TENN.
CHICAGO • DETROIT • CINCINNATI • KANSAS CITY • ST. LOUIS • NEW YORK
CHARLOTTE • MEMPHIS • BIRMINGHAM • JACKSON • TALLAHASSEE • JACKSONVILLE • MONTGOMERY
BIRMINGHAM • JACKSON • TAMPA • JACKSONVILLE • MONTGOMERY
ROGERS CALDWELL & COMPANY, INC., 110 BROADWAY, NEW YORK

CALDWELL & COMPANY
400 UNION STREET NASHVILLE, TENN.
CHICAGO • DETROIT • CINCINNATI • KANSAS CITY • ST. LOUIS • LOUISVILLE
CHARLOTTE • MEMPHIS • BIRMINGHAM • JACKSON • TALLAHASSEE • JACKSONVILLE • MONTGOMERY
BIRMINGHAM • JACKSON • TAMPA • JACKSONVILLE • HOUSTON
ROGERS CALDWELL & COMPANY, INC., 110 BROADWAY, NEW YORK

WHEN EMPIRES ARE BUILT
INVESTMENT VALUES GROW

Wherever great sectional developments take place, there are created exceptional opportunities for the purchase of sound bonds. (The welding of the south's vast resources into the fibre of this country's growing industry is writing new chapters for industrial history. Stable values are there being created which, some years hence, will have enhanced, no doubt, to a degree seemingly remarkable. (Every investor should consider sound southern securities. Obligations of railroad, public utility and industrial corporations located in the south are conservative investments, and in many cases afford appreciably better-than-average returns. (This house for years has been identified with southern financing. Investment suggestions gladly submitted upon request.

WHERE PROGRESS FAVERS SOUND SECURITIES
... THE SOUTH ...

SELLING the South to the nation at large has been the objective of Caldwell & Company, specialists in Southern securities, from the firm's first day of business.

This has been a task remunerative in pleasure as well as profit. Of Southern origin, Caldwell & Company has taken the keenest zest in telling others what the South has and what the South is doing.

At the same time this firm has been able, through sound financing, to attract many new industries into the South and to assist many old Southern industries to greater development.

"We Bank on the South"

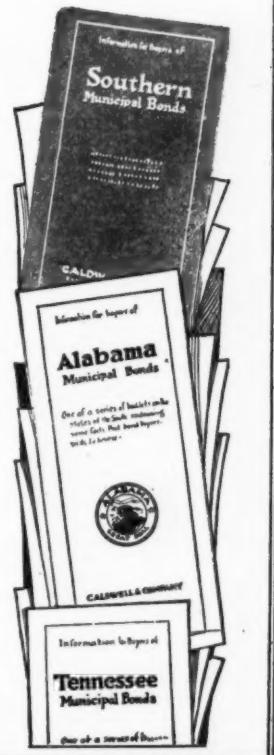
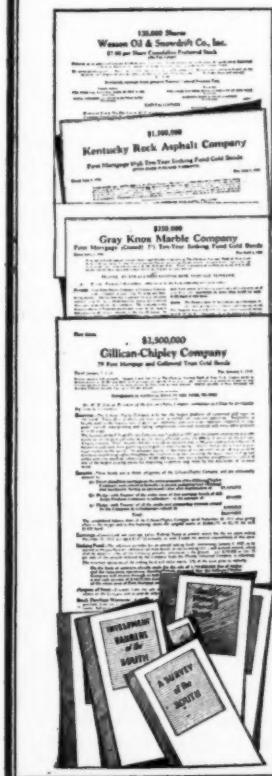
CALDWELL & COMPANY

Southern Securities

400 UNION STREET

NASHVILLE, TENN.

Offices in Principal Cities



FINANCIAL NEWS

(Continued from page 116)

Sinking Fund Commrs. receives bids June 13 for \$950,000 4 1/4% of \$7,500,000 State Highway certificates: Harry F. Byrd, Governor; John M. Purcell, State Treas.

Va., Virginia Beach—Seawall, Walkway—Town, Willard Ashburn, Mayor, voted \$250,000 bonds. 5-12

W. Va., Clarksburg—Road—Tenmile Dist. Harrison County, plan \$15,000 to \$20,000 bond election. Address County Commrs.

W. Va., Hurricane—Sewer—Town considering bond issue. Address Town Clk.

W. Va., Lewisburg—Road—Greenbrier County votes May 31 on \$108,000 Irish Corner Dist. bonds; Paul C. Hogsett, Clk., County Court; Julius K. Monroe, County Road Engr.

W. Va., Parkersburg—Municipal Improvement—City, W. E. Stout, Mayor, votes June 28 on \$850,000: \$400,000, water works; \$450,000, paving and sewer; J. V. Dunbar, City Engr. 4-21

Bond Issues Sold

Ala., Birmingham—Public Improvement—City, C. E. Armstrong, Comptroller, sold \$300,000 4 1/4% bonds to M. F. Schlater & Co., New York, at premium of \$809.40. 5-5

Ala., Demopolis—Water Works—City, W. A. Smith, Clk., sold \$60,000 5 1/2% bonds to Caldwell & Co., Nashville, Tenn., at 101.90 and accrued interest.

Ala., Fairfield—Street—City Comm., D. F. Culpepper, Clk., sold \$10,000 bonds to Ward, Sterne & Co., Birmingham.

Ala., Greenville—School—School Board sold \$72,000 warrants to First National Bank of Greenville.

Fla., Clearwater—School—Pinellas County sold \$450,000 School Dist. No. 3 bonds, jointly, to Provident Savings Bank and Trust Co., and Weil, Roth & Irving Co., both of Cincinnati, Ohio, at par.

Fla., Hollywood—Municipal Improvement—City, Paul R. John, Mayor, sold bonds to Parson Son & Co., 111 Broadway, New York, at 95 and accrued interest.

Fla., Ocala—Street—City sold \$18,000 6% bonds to Ocala National Bank, at premium of \$400.70.

Fla., Quincy—Road—Gadsden County Commrs., F. F. Morgan, Clk., sold \$200,000 5% bonds to John Nuveen & Co., Chicago, Ill., at 98.25. 4-28

Fla., Stuart—City sold \$160,000 general improvement, and \$210,000 street bonds to George C. Pierce Co., Jacksonville, at 95. Address City Mgr. Mahr.

Fla., Wauchula—Paving—City Comm., sold \$134,000 6% bonds to Spitzer, Rorick & Co., Toledo, Ohio, at 98.02.

Fla., Wauchula—Road—Hardee County Commrs. sold \$55,000 bonds to Spitzer, Rorick & Co., Toledo, Ohio, at 103.11.

Ga., Adel—School—Cook County Board of Education sold \$95,000 5 1/2% Sparks-Adel bonds to Hilsman & Co., Robinson-Humphrey Co., and Citizens and Southern Co., all Atlanta, at 102 and accrued interest. 4-28

Md., Easton—Town sold \$30,000 4 1/2% water works bonds to C. T. Williams & Co., at 103.133; \$30,000 4 1/2% fire engine bonds to Frank B. Cahn & Co., both Baltimore, at 103.116.

Miss., Canton—Sewer Refunding—City, P. H. Virden, Clk., sold \$50,000 5% bonds to Jackson State Bank, and Merchants Bank and Trust Co., Jackson, Miss., at premium of \$510 and expenses.

Miss., Marks—Road—Quitman County Board of Supvrs. sold \$20,000 5 1/2% Road Dist. No. 3 bonds to L. B. Tigratt & Co., Jackson, Miss.

N. C., Clayton—Town, D. L. Barbour, Clk., sold \$50,000 6% bonds to A. T. Bell & Co., Toledo, Ohio, at \$51,000 and accrued interest; \$30,000, municipal building; \$15,000, sewer; \$5000, water works. 5-5

N. C., Spindale—Municipal Improvement, Building—City sold \$125,000 5 1/2% bonds to R. S. Dickson & Co., Gastonia, at premium of \$1250. 4-14

Okla., Medford—School—Board of Education, C. N. Mott, Clk., sold \$20,000 4 1/2% Medford School Dist. No. 4 bonds to Calvert & Canfield, Oklahoma City, at 100.13.

S. C., Conway—Funding—Horry County sold \$50,000 5 1/2% bonds to Robinson-Humphrey Co., Atlanta, Ga., at premium of \$500.

S. C., Orangeburg—Building—City, R. H. Jennings, Mayor, sold \$175,000 4 1/2% bonds to South Carolina National Bank, Charleston, at premium of \$750.

S. C., Spartanburg—Spartanburg County Commrs., J. L. M. Williams, Clk., sold \$800,000 4 1/2% \$1000 denom. bonds to Bankers Trust Co., New York, and South Carolina National Bank, Columbia, Greenville, and Charleston, at par, premium of \$8,000.10, and accrued interest. 5-12

S. C., York—Highway—York County Permanent Road Comm. sold \$1,000,000 4.75% bonds jointly to Halsey, Stuart Co. and Redmond Co., both New York, at par, accrued interest and premium of \$35,900. 4-7

Tenn., Memphis—Revenue—City Comm. sold \$500,000 short term notes to Bank of Commerce & Trust Co., Memphis, at premium of \$1104 on 3.75 basis; Rowlett Paine, Mayor.

Tenn., Morristown—Hamblen County Court sold \$50,000 4 1/2% bonds to Morristown Trust Co., at par and premium of \$700.

Tex., Lubbock—Refunding—City sold \$650,000 bonds to Geo. L. Simpson & Co., Dallas. 5-12

Tex., Quanah—School—Trustees of Quanah Independent School Dist. sold \$80,000, 5% bonds to W. L. Slayton & Co., Toledo, Ohio, at par, accrued interest and premium of \$2200. 4-14

Tex., Texarkana—City sold \$225,000 5% bonds to Caldwell & Co., Nashville, Tenn., at premium of \$1350: \$150,000 refunding street paving bonds; \$75,000, extend and improve sewers. 5-12

Tex., Waco—School—State Dept., Austin, purchased \$50,000, Pecan Grove bonds at premium of \$105.

Va., Crewe—Water Works, Sewer—Town, Wm. P. Taylor, Mgr., sold \$185,000 5% \$1000 denom. bonds to Braun, Bosworth & Co., Toledo, Ohio. 4-7

Va., Hampton—Elizabeth City County, H. H. Holt, Clk., sold \$30,000 4 1/2% bonds to Well, Roth & Irving Co., Cincinnati, Ohio, at discount of \$890. 4-14

Va., Richmond—Sewer—Henrico County Board of Supvrs., S. P. Waddill, Clk., sold \$300,000 4 1/2% \$1000 denom. Sanitary Sewer Dist. No. 1 bonds to Frederick E. Nolting & Co., Richmond, and Harris, Forbes & Co., New York, at \$307,860. 5-12

Building and Loan Associations

Ga., Moultrie—M. W. Majors, Pres.; B. W. Daniel, V.-P.; Park Harper, Sec.-Treas., of Building and Loan Assn. recently chartered.

Tex., Houston—Pyramid Building and Loan Assn., capital \$10,000; incorporated: Gus Marbe, 316 Colquitt St.; P. J. Studdert, 2014 Truxillo St.; Thomas W. Blake, Esperen Bldg.

New Financial Corporations

Ala., Homewood—Judge C. E. Thomas, State Supt. of Banks, Montgomery, approved plans to charter Shades Valley Bank in Homewood, with \$50,000 capital. 5-5

Ark., Little Rock—Arkansas Farm Credit Co., capital \$1,000,000, incorporated; W. A. Hicks, Pres., 2404 State St.; Jo Nichol, first V.-P.; F. W. Niemeyer, Sec.-Treas., 215 E. Capitol St.

La., New Orleans—Betlyn Securities Corp., capital \$20,000, incorporated; Jacques Mossler, Pres., 1319 Canal St.; Milton Nelson, Sec.-Treas., 2531 Nashville Ave.

N. C., Asheville—Richland, Inc., capital \$50,000, chartered: J. I. Mason, Sunset Trail; R. C. Stevens, 20 College St.; W. R. Campbell, Jackson Bldg.

N. C., Leaksville—Leaksville Loan & Trading Co., capital \$100,000, chartered: E. E. Richardson, E. E. Emerson, G. C. Gammon.

Tex., Houston—McGranahan Investment Co., capital \$25,000, chartered: J. M. McGranahan, 3214 Huntington St.; J. A. Kelly, 610 W. Clay St.; W. A. Parish, 3918 Mt. Vernon Ave.

American National Bank, Oliver J. Sands, Pres., Richmond, Va., plans establishing branch in South Richmond, near Hull and Cowardin St.

Livermore Savings and Building Assn., Livermore, Ky., plans increasing capital, \$100,000 to \$200,000.

Merchants & Farmers Bank, P. S. Cum-

nings, Pres., Donalsonville, Ga., increased capital \$25,000 to \$50,000.

Merchants State Bank, Glen Henley, Pres., Melbourne, Fla., increased capital \$25,000 to \$50,000.

Robert S. Strickland, vice-president of the Fourth National Bank, Atlanta, was elected president of the Georgia Bankers' Association at the annual convention there last week. Savannah was selected as the 1928 convention city. J. S. Calhoun, of Cartersville, was elected vice-president; Haynes McFadden, Atlanta, secretary; F. L. Henderson, Cedartown, treasurer, and Joseph R. Mercer, Atlanta, assistant secretary.

J. B. Wilkinson, Midland, Tex., was elected Pres., Henry James, Abilene, V.-P., and A. M. Turner, Stanton, Cashier, of Home National Bank, of Stanton, Tex., having purchased controlling interest.

Citizens State Bank, Alex. Thompson, Pres., Woodville, Tex., acquired Guaranty State Bank, S. W. Sibley, Pres.; Miss Annie Laurie Johnson, Cashier of Guaranty State Bank, will be cashier of Citizens State Bank.

Book Review

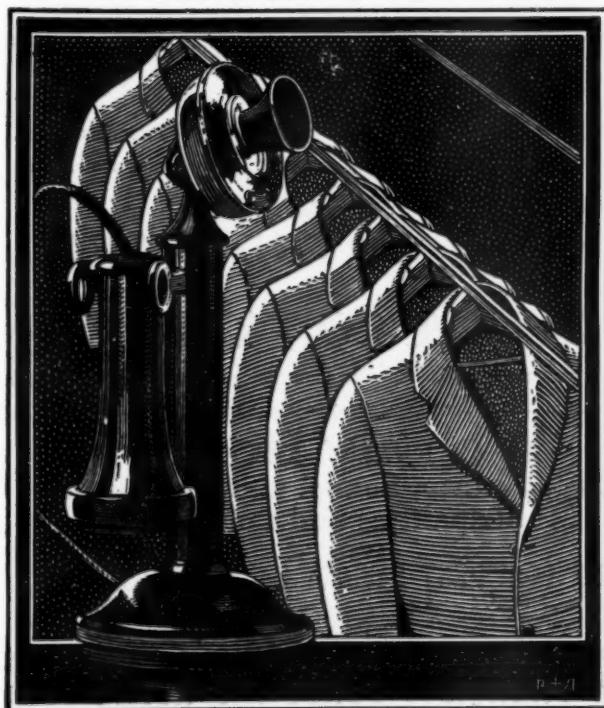
Credits and Collections. By Richard P. Ettinger and David E. Gollob. New York: Prentice-Hall, Inc. 1926. Pp. 520. Cloth. \$5.

Prompt collections are a vital feature of every business, for profits depend largely upon the number of times a manager can turn over his capital, and frequent turnovers can hardly be coupled with slow collections. This enlarged edition of Credits and Collections, by Richard P. Ettinger, member of the bar, and David E. Gollob, credit manager of the Einstein-Wolf Company, explains and illustrates collection systems and collection methods that are effective. How to handle a weak debtor to secure the best results, when to use collection agencies and attorneys, what actual procedure to follow in going after the slow accounts are among the subjects covered. The extent of the revision of this already popular book is indicated by the fact that the new edition is more than one-third again as large as the old book. Several entirely new chapters have been added. For example, there is a new chapter on the trade acceptance, explaining how it is used, its advantages and disadvantages to both the seller and the purchaser. Two entirely new chapters on collection letters and collection devices contain a number of typical successful collection letters, and show by example the difference between a good collection letter and a poor one. The chapter on retail credits is another new chapter and includes a discussion on installment sales, and illustrates all forms used in them. A practical explanation of the Federal Reserve System and its operation is condensed in a special chapter.

Manzel Lubricator, Model 82.

The Manzel Force Feed Lubricators, Model 82, for Diesel engines; also for gas, gasoline and oil engines, steam engines, compressors and other machinery requiring positive lubrication, are comprehensively described and illustrated in Catalogue No. 82, issued by the Manzel Brothers Company of Buffalo, N. Y. This lubricator has been patented and there are also other patents pending. Among its important features is its adaptability for actually timing the injection of oil into the cylinders at the exact time and place desired. In this model the oil is drawn from a reservoir by a single-plunger pump, which then forces it through a fluid-filled sight glass, thus preventing the entrainment of air bubbles in the oil pipe. It is stated that the most efficient lubrication may be obtained with a minimum amount of oil.

Why not call them up *Long Distance order more*



FROM ALL PARTS of the country comes similar news. From Wheeling, West Virginia: "A tremendous demand for slickers caused us to save many sales that would have been lost, had we not used the long distance telephone to secure immediate shipments." Louisville, Kentucky: "We use Long Distance for making purchases . . . for hurrying along information and shipments. . . . In many cases it has saved us trips to market." Rochelle, Illinois: ". . . not a week goes by but we use Long Distance to take

A MADISON, WISCONSIN, clothier found that he was having a run on a special suit of collegiate type. He called the Chicago manufacturer on Thursday morning. Eight suits arrived on Friday. The entire lot was disposed of Saturday. "Had it not been for the telephone," he writes, "we would not have been able to satisfy the demand for a weekend business so profitable to us."

care of rush orders. . . . The only satisfactory way." Cincinnati: "Long Distance in our case is just as important as the local telephone."

There's scarcely a business in this country that could not use long distance calls to cut costs, save trips and get needed goods. They'll nearly always cost less than you think. . . . *Number, please?*

BELL LONG DISTANCE SERVICE



Live In Knoxville— City of Varied Resources

Population 134,688.
Tax Rate, less than \$2.00 per \$100.
Purest native-born population in America.
Finest municipal market in South.
City Manager form of Government.
278 Manufacturing Plants, making over
400 different products.
Proximity to Water-Power and Raw Ma-
terials.
Seat of University of Tennessee.
Healthful and semi-mountain climate.
Gateway into proposed Smoky Mountain
National Park.
City of 25,000 homes.

Write us for further
information.

JOS. P. GAUT
President

J. B. RAMSEY
1st Vice-Pres.

The Holston National Bank of Knoxville, Tennessee

Maybe This Bank Is Different From Others

Its policy is pleasing 16,000
customers who are its friends.
Address us in regard to your
financial requirements.

*We invite your inspection of our modern,
burglar-proof and fireproof Safety Deposit
Vaults, which may be rented at small cost.*

BALTIMORE COMMERCIAL BANK
GWYNN CROWTHER, President

26 South Street, Baltimore, Md.

Capital and Surplus \$1,350,000.00 Member Federal Reserve System

MARYLAND TRUST COMPANY BALTIMORE

Transacts a General Trust and Banking Business

Correspondence and interviews invited

CAPITAL, \$1,000,000

YOUNG & SELDEN COMPANY MANUFACTURING Bank and Commercial Stationers BALTIMORE, MD.

WE extend the facilities of
our organization to those
desiring information or reports
on companies with which we
are identified.

Electric Bond and Share Company

(Incorporated in 1905)
Paid-up Capital and Surplus, \$100,000,000
2 Rector Street New York

Municipalities
Corporations
Railroads

Financed
MARX & CO. BIRMINGHAM
ALABAMA

We Buy Bonds
City, County, School and Road from
Municipalities and Contractors
WRITE
THE PROVIDENT SAVINGS BANK & TRUST CO.
CINCINNATI OHIO

We Buy and Sell
MUNICIPAL BONDS AND NOTES
CORPORATE PREFERRED
STOCK and BOND ISSUES
See Us on Southern Financing
R. S. DICKSON & CO., Gastonia, N. C.
New York Greenville, S. C. Goldsboro, N. C.

STATE—COUNTY—CITY
Financing
CURTIS & SANGER
49 Wall Street - NEW YORK

Municipal Bonds

Inquiries invited from municipalities and contractors.
We buy city, county, district, school, road, lighting,
water works and other municipal issues.

A.CALLYN AND COMPANY
67 W. Monroe St., Chicago, Ill.
New York Boston Philadelphia Milwaukee Minneapolis San Francisco

IF YOU WANT TO GET—
*Southern Business
Advertise in the
MANUFACTURERS RECORD*

PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close June 14, 1927.

PROPOSALS FOR MANEUVER BOAT.
U. S. ENGINEER OFFICE, HUNTINGTON,
W. VA.—Sealed proposals will be received
here until 11 A. M. June 14, 1927, and then
opened, for furnishing one steel maneuver
boat. Further information on application.

Bids close June 10, 1927.

SEALED BIDS in triplicate, subject to
the conditions contained here, will be re-
ceived until 11 A. M. June 10, 1927, and then
publicly opened, for furnishing all labor
and materials and performing all work for
Construction of Buildings and Utilities, in-
cluding walks at U. S. Veterans' Hospital
No. 102, Livermore, California. This work
will include excavating, reinforced concrete
construction, hollow tile, brickwork, marble
work, iron work, built-up roofing, roof ven-
tilators, metal lathing, plastering, carpentry,
insect screens, hardware, painting, glazing,
plumbing, heating, electrical work and out-
side sewer, water, heat and electric connec-
tions, all as set forth on bid form. Bids
will be considered only from individuals,
firms or corporations possessing satisfactory
financial and technical ability, equipment
and organization to insure speedy comple-
tion of the contract, and in making awards
the records of bidders for expedition and
satisfactory performance on contracts of
similar character and magnitude will be
carefully considered. At the discretion of
the Director, drawings and specifications
may be obtained upon application to the
Construction Division, Room 791 Arlington
Building, Washington, D. C., and at the
office of the Supervising Superintendent of
Construction, care of U. S. Veterans' Hos-
pital, Palo Alto, California. Deposit with
application of a check or postal money order
for \$25, payable to the **TREASURER OF**
THE UNITED STATES, is required as se-
curity for safe return of the drawings and
specifications within ten days after date of
opening bids. **FRANK T. HINES**, Director,
May 10, 1927.

Bids close June 21, 1927.

\$63,400 Improvement Bonds

Kingsport, Tenn.

Sealed bids will be received until 8 o'clock
P. M. June 21, 1927, at which time they
will be opened and read publicly, for \$20,000
5 1/2% Public Improvement Bonds, dated
June 1, 1927, in denomination of \$1000
each, maturing 20 years from date of issue,
interest payable semi-annually on June 1
and December 1 of each year, and
\$23,100 6% City Improvement Bonds, dated
June 1, 1927, in denominations of 22 bonds
\$1000 each, one bond \$600 and one bond
\$500, maturing 20 years from date of issue,
interest payable semi-annually on June 1
and December 1 of each year, and
\$20,300 6% Improvement District Bonds,
dated July 15, 1927, in denominations satis-
factory to the purchaser, interest payable
annually on the 15th day of July of each
year.

The Improvement District Bonds mature
on the 15th day of July as follows: \$2250
each year 1928 to 1932, inclusive; \$2200
each year 1933 and 1934; \$2100, 1935, and
\$2050 in 1936.

A certified check for \$1000, payable to
G. D. Black, City Treasurer, must accom-
pany each bid, and all bids should be ad-
dressed to F. L. Cloud, City Manager, and
marked "Sealed Bids for Bonds."

Opinion approving the legality of the
bonds will be furnished by Messrs. Thom-
son, Wood & Hoffman, Attorneys, New York
City, and all expense in connection with the
preparation and printing of the bonds will
be borne by the City of Kingsport.

The Board of Mayor and Aldermen of the
City of Kingsport reserves the right to re-
ject any and all bids.

F. L. CLOUD, City Manager.

RATE: 35 cents per line per insertion.

PUBLICATION DAY: Thursday.

FORMS CLOSE: 4 P. M. Monday.

DAY LETTER: When too late to send
copy by mail to reach us by 4 P. M.
Monday, forward by day letter.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:

Published every business day; gives
information about the industrial, com-
mercial and financial activities of the
South and Southwest.

The Daily Bulletin can be used to
advantage when copy cannot reach
us in time for publication in the
Manufacturers Record before bids are
to be opened, or when daily publica-
tions are necessary to meet legal
requirements.

The same rate applies—35 cents per
line per insertion.

Bids close June 22, 1927.

TREASURY DEPARTMENT, Office of the
Supervising Architect, Washington, D. C.,
May 18, 1927. **SEALED BIDS** in duplicate
will be received until 3 P. M. June 22, 1927,
and then publicly opened, for the construc-
tion of the United States Postoffice at Bay-
onne, N. J. Drawings and specifications
may be obtained from the Custodian of the
site at Bayonne, N. J., or at this office, in
the discretion of the Supervising Architect.
Jas. A. Wetmore, Acting Supervising Architect.

Bids close June 7, 1927.

\$13,000,000 State Highway Obligations

STATE OF ARKANSAS

Little Rock, Ark.

SEALED BIDS for \$13,000,000 serial con-
pon obligations of the State of Arkansas
will be received by the board authorized to
sell same until 10 A. M. on the

7TH DAY OF JUNE, 1927,

at which time bids will be opened in public
in the office of the State Treasurer, in the
City of Little Rock, Arkansas. Said coupon
obligations are the obligations of the State
of Arkansas, are negotiable, payable to
bearer and may be registered.

Said obligations will be dated June 1,
1927, and will mature serially as follows:
\$200,000. June 1, 1938
400,000. June 1, 1939
600,000. June 1, 1940
750,000. June 1, 1941
800,000. June 1, 1942
1,200,000. June 1, 1943
1,500,000. June 1, 1944
1,650,000. June 1, 1945
1,750,000. June 1, 1946
2,000,000. June 1, 1947
2,150,000. June 1, 1948

Obligations will be issued in denomina-
tions of \$1000 or multiples thereof at the
request of the purchaser. Bids will be taken
on basis of interest at 4, 4 1/4 and 4 1/2 per
cent. Principal and interest payable in law-
ful money of the United States at some
large bank or trust company in the City of
New York, to be selected by the purchaser.

Approving opinion of Thomson, Wood &
Hoffman of New York City and Rose, Hem-
ingway, Cantrell & Loughborough of Little
Rock, Arkansas, will be furnished by the
State to the purchasers.

The proceeds of this issue are to be used
for paving additional roads of the State
Highway System.

The State of Arkansas has but few out-
standing obligations, the total being less
than two million dollars.

For circular giving detailed information
address the Governor, the Secretary of
State, the State Highway Commissioner or
the State Treasurer.

The State reserves the right to reject any
or all bids and waive all formalities.

RALPH KOONCE,
Treasurer of the State of Arkansas.

Bids close June 6, 1927.

Bridge

Sarasota, Fla.

Sealed bids will be received until 10:30 A. M.
June 6, 1927, by the Board of County Com-
missioners of Sarasota County at the Court-
house in Sarasota, Florida, for the construc-
tion of a bridge over New Pass, and at that
time publicly opened and read.

The work consists of the construction of
a movable bridge, having a clear span of
110 feet, and the construction of reinforced
concrete approach spans.

All proposals must be accompanied by a
certified check in the amount of 5% of the
bid.

Bids must be made upon the blank pro-
posal form which, with specifications and
plans, will be furnished by the Engineer
upon application.

F. E. SCHNEPFE,
County Engineer.

Bids close May 31, 1927.

Highway Construction

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building nine
sections of State Highway as follows:
Frederick County, Cont. F-100—One sec-
tion of State Highway from end of
Cont. F-88 to Rocky Ridge, a distance
of 1.0 mile. (Concrete.)

Carroll County, Cont. Cl-68—One section
of State Highway from end of Cont. Cl-34
toward Lineboro for a distance of 1.0
mile. (Concrete.)

Charles County, Cont. Ch-43—One section
of State Highway from end of Cont.
Ch-39 to Cooksey, a distance of 1.70
miles. (Gravel.)

Wicomico County, Cont. Wl-41—One section
of State Highway from end of Cont.
Wl-36, near Pittsville, toward the Dela-
ware State Line for a distance of 1.0
mile. (Concrete.)

Worcester County, Cont. Wo-48—One sec-
tion of State Highway from Second
street, Pocomoke, toward Cedar Hall
for a distance of 0.80 mile. (Concrete.)

Baltimore County, Cont. B-1-B—One sec-
tion of State Highway along the Falls
road from Broadway to the beginning
of concrete near Shawan, a distance of
2.48 miles. (Concrete Shoulders.)

Montgomery County, Cont. 125-C—One sec-
tion of State Highway along Sligo ave-
nue from end of Cont. 125-B toward
Avenel for a distance of 1.0 mile.
(Concrete Shoulders.)

Prince George's County, Cont. P-3-B—One
section of State Highway along the
Marlboro Pike from the D. C. Line to
Oakland, a distance of 1.31 miles.
(Concrete Shoulders.)

St. Mary's County, Cont. Sm-4-A—One sec-
tion of State Highway between Hughes-
ville and Mechanicsville for a distance
of 5.83 miles. (Concrete Shoulders and
Resurfacing.)

will be received by the State Roads Com-
mission at its offices, 601 Garrett Building,
Baltimore, Md., until 12 M. on the 31st day
of May, 1927, at which time and place they
will be publicly opened and read.

Bids must be made upon the blank pro-
posal form which, with specifications and
plans, will be furnished by the Commission
upon application and cash payment of \$1.00,
as hereafter no charges will be permitted.

No bids will be received unless accom-
panied by a certified check for the sum of Five
Hundred (\$500) Dollars, payable to the
State Roads Commission.

The successful bidder will be required to re-
ject any and all bids.

BY ORDER of the State Roads Com-
mission this 12th day of May, 1927.

JOHN N. MACKALL, Chairman.
L. H. STEUART, Secretary.

PROPOSALS

Bids close July 6, 1927.

Bridge Foundation Piers and Approach Trestles

Baton Rouge, La.

Sealed proposals will be received by the Louisiana Highway Commission at their office in the Raymond Building, Baton Rouge, Louisiana, up to 11 o'clock A. M.

WEDNESDAY, JULY 6, 1927,
at which time and place they will be publicly opened, for the construction of:

The Chef Menteur and Rigolets Bridge Foundation Piers and Approach Trestles, twenty-two and twenty-eight miles, respectively, northeast of New Orleans, Louisiana, on the Chef Menteur Highway, Orleans and St. Tammany Parishes, Federal Aid Projects No. 201, State Route No. 2, Section "D," Unit No. 1 and Section "F," Unit No. 1.

The work contemplated consists of furnishing all materials, labor, equipment, etc., necessary to build the foundation piers for steel superstructures and the approach trestles to two bridges. The Chef Menteur bridge will consist of two 250-ft. steel fixed spans, one 270-ft. steel swing span and three 33-ft. reinforced concrete deck girder spans on each and resting on precast concrete pile bents. The following approximate quantities are for the five foundation piers, six concrete girder spans and six concrete pile bents involved in Chef Menteur Bridge:

7,400 Cubic Yards Structural Excavation.
16 Cubic Yards Class A-A Concrete in Handrail.
3,600 Cubic Yards Class A Concrete in Girders, Piers and Pile Caps.
230 Cubic Yards Class A Concrete in Seal Course for Piers.
5,200 Cubic Yards Class B Concrete in Pier Bases.
900 Cubic Yards Class B Concrete in Seal Course for Piers.
252,000 Pounds Reinforcing Steel.
1,125,000 Pounds Fabricated Structural Steel in Caissons.
1,440 Lineal Feet Precast Concrete Piling.

The Rigolets Bridge will consist of three 400-ft. steel fixed spans, one 400-ft. steel swing span, three 43-ft. reinforced concrete deck girder spans on south end and fifty 43-ft. reinforced concrete deck girder spans on the north or Slidell end concrete girder spans resting on precast concrete pile bents. The following approximate quantities are for the six foundation piers, fifty-three concrete girder spans and fifty-three concrete pile bents involved in the Rigolets Bridge:

9,700 Cubic Yards Structural Excavation.
172 Cubic Yards Class A-A Concrete in Handrail.
7,870 Cubic Yards Class A Concrete in Girders, Piers and Pile Caps.
275 Cubic Yards Class A Concrete in Seal Course.
6,200 Cubic Yards Class B Concrete in Pier Base.
1,080 Cubic Yards Class B Concrete in Seal Course.
1,000,000 Pounds Reinforcing Steel.
1,137,000 Pounds Fabricated Structural Steel in Caissons.
18,400 Lineal Feet Precast Concrete Piling.

Separate bids will be received, contracts executed and bonds required for each of the above-described bridges, but a combination bid may be submitted covering work on both bridges, and if contract is awarded on this basis the work will be separated into two contracts and bond required for each.

Information as to the location, character of work, extent and class of material, terms of payment, regulations governing manner of submitting proposals and executing contract may, on application, be obtained at the office of the Louisiana Highway Commission, Raymond Building, Baton Rouge, Louisiana. Plans and specifications may be inspected at the office of the Commission in Baton Rouge or will be furnished upon receipt of \$5.00 for Chef Menteur Bridge, \$5.00 for Rigolets Bridge or \$8.00 for both bridges as payment therefor, not to be refunded. Each bid shall be submitted on a form furnished by the Commission and shall be placed, together with the proposal guaranty, in a sealed envelope so marked as to indicate its contents without being opened. This envelope shall then be placed in another, which shall be sealed and addressed to the LOUISIANA HIGHWAY COMMISSION, REYMOND BUILDING, BATON ROUGE, LOUISIANA.

FRANK T. PAYNE,
Chairman Louisiana Highway Commission.
J. M. FOURMY,
State Highway Engineer.

Manufacturers Record

Bids close June 7, 1927.

Highway Construction

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTOR

Baltimore, Md.

SEALED PROPOSALS for building four sections of State Highway as follows:
Allegany County, Cont. A-41—One section of State Highway along the River Road from end of Cont. A-40 toward McCool for a distance of 6.0 miles. (Concrete.)
Frederick County, Cont. F-73—One section of State Highway between Myersville and Ellerton for a distance of 1.1 miles. (Concrete.)
Baltimore City, Cont. BC-68—One section of State Highway along Hayward avenue between the Reisterstown Road and Park Heights avenue for a distance of 0.5 mile. (Sheet Asphalt.)
Worcester County, Cont. Wo-36—One section of State Highway from Trappe Mills toward Lewis' store for a distance of 1.0 mile. (Concrete.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 7th day of June, 1927, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form, which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER OF THE STATE ROADS COMMISSION this 20th day of May, 1927.

JOHN N. MACKALL, Chairman.
L. H. STEUART, Secretary.

Bids close June 7, 1927.

Road Construction

Charleston, W. Va.

Sealed proposals will be received by the State Road Commission of West Virginia at its office in Charleston, West Virginia, until 10 o'clock A. M. on the 7th day of June, 1927, and said proposals will be publicly opened and read immediately thereafter at the Kanawha County Courthouse, Charleston, W. Va., for the construction of the following sections of State Road:

Project 3285-C, Clay County—5.5 miles of the Otter towards Braxton County Line Road for Grading and Draining. Certified check \$5600.

Project 3259, Kanawha County—5.0 miles of the Pocataligo-Sissonville Road for Concrete Paving; also Ashlar Masonry Substructures of Tupper Creek Bridge No. 930 and Poca River Bridge No. 931, all to be let in one contract. Certified check \$7500.

Projects 44 and 121, Mercer County—Princeton-Flat Top Mountain Road, placing Guard Rail. Certified check \$1200.

Projects 110-C and 3062, Wyoming County—6.0 miles of the Mullens-Amigo Road for Modified Bituminous Macadam Paving. Certified check \$7200.

Project 2063, Ohio County—Reconstruction Top of Wheeling Hill and completion of Fulton Hill. Certified check \$600.

Project 2064, Ohio County—Reconstruction 1 mile of National Road. Certified check \$1200.

Projects 3162-A and B, Wetzel County—6.0 miles New Martinsville-Wileyville Road for Gravel Surfacing. Certified check \$1200.

Project 3157-C, Braxton County—4.0 miles of the Strange Creek-Clay County Line Road for Grading and Draining. Certified check \$4000.

Part Project 1044, Braxton County—3.0 miles of the Sutton-Flatwoods Road for paving with Bituminous Macadam. Certified check \$2500.

Part Project 1044 and Project 69, Braxton County—3.0 miles of the Sutton-Flatwoods Road for paving with Bituminous Macadam. Certified check \$2500.

Project 3192, Morgan County—1.0 mile of Berkeley Springs-Hancock Road for paving

with Cement Concrete or Bituminous Macadam. Certified check \$1200.

Project 1119, Mineral County—4.6 miles of the Blaine-Elk Garden Road for paving with Cement Concrete or Bituminous Macadam. Certified check \$4800.

Project 3211-C, Randolph County—5.0 miles of Kerens-Tucker County Line Road for paving with Cement Concrete or Bituminous Macadam. Certified check \$5400.

Project 3215-B, Grant County—5.0 miles of the Scherr-Mount Storm Road for Grading and Draining. Certified check \$3500.

Proposals will be received only upon State Standard forms in accordance with plans, specifications and estimates of quantities therefor, which standard forms, plans, specifications and estimates of quantities may be obtained from the office of the Division Engineer within whose territory the proposed construction is located or from the office of the State Road Commission, in Charleston, W. Va.

Each proposal must be accompanied by a certified check for the amount noted.

The right is reserved to reject any or all proposals.

THE STATE ROAD COMMISSION OF WEST VIRGINIA.
E. B. CARSKADON, Secretary.

Bids close June 6, 1927.

Paving and Sanitary Sewers

Pulaski, Va.

Sealed proposals will be received by the Mayor and Council of the Town of Pulaski, Virginia, on Monday, June 6, 1927, at 2 P. M., for the construction of approximately two and one-half miles of concrete pavement, aggregating 28,617 square yards, and also for 1067 square yards of bituminous macadam pavement.

At the same time bid will also be received for constructing approximately five and one-half miles of eight-inch Sanitary Sewers.

For full information in regard to the contracts to be let address the undersigned.

E. W. CALFEE, Mayor.

Bids close June 7, 1927.

Sanitary Sewer and Sewer Pipe

Jackson, Miss.

Bids will be taken for approximately twenty miles sanitary sewer construction: also for sanitary sewer pipe. Plans and specifications on file in City Engineer's office. Bids to be filed before 10 A. M. June 7, 1927, with City Clerk, at which time they will be opened and read. All usual rights reserved. Plans and specifications will be mailed to contractors on receipt of deposit of \$10, deposit subject to return of plans and specifications.

A. F. HAWKINS,
Commissioner of Streets.
A. J. JOHNSON, City Clerk.
PETER A. O'BRIEN, City Engineer.

Bids close May 31, 1927.

Water Supply Improvement

Burlington, N. C.

Sealed proposals will be received by the Mayor and Board of Aldermen of the City of Burlington, N. C., until 8 P. M. May 31, 1927, for the furnishing of material and construction of a gravity section masonry Dam and Impounding Reservoir on Stony Creek, requiring the following approximate quantities:

4700 cu. yds. concrete.
1000 cu. yds. earth excavation.
500 cu. yds. rock excavation.
100 acres clearing of land.

Separate bids will be received on the construction of the dam and on the clearing of the land.

Plans and specifications may be seen at the office of the City Clerk and at the office of the Engineer after May 20 and may be obtained on application, accompanied by a check for \$10, which will be refunded to bona fide bidders returning the plans.

All bids must be accompanied by a certified check to the amount of 5% of the bid as evidence of good faith.

Contractors must comply with the act to regulate the practice of General Contracting as ratified by the General Assembly March 10, 1925.

The right is reserved to reject any or all bids or to award contracts which, in the opinion of the Engineer and Board of Aldermen, appear for the best interest of the city.

EARL B. HORNER, Mayor.
M. W. McPHERSON, City Clerk.
A. C. LINBERG, Consulting Engineer,
Burlington, N. C.

Dredging

We have a proposition consisting of continuous dredging at one location lasting 6 months to a year or longer.

No Pontoons or shore line required. Material to be loaded on barges. Contractor to furnish Dredge, necessary Barges, tender and Tug for towing material.

Tow will be about 15 to 20 miles.

Dredge with cutter head required. Maximum depth of dredging 20 feet.

Essential that Dredge be equipped with washer and screen in order to deliver clean material to barges.

Dredging to be done in Southern waters near New Orleans, La. Safe harbor.

We are prepared to award contract for this work on long-time employment on yardage basis, and will agree to take output of dredge working on single shift, with minimum of 1000 cu. yds. per day.

If interested, write to address given below, stating class of equipment you have available for dredging and towing, number and size of barges and with description of same. Address A 422, care of Manufacturers Record, Baltimore, Md.

Bids close May 31, 1927.

Water-Works Improvements

Many, La.

The Mayor and Board of Aldermen of the Town of Many, Louisiana, will receive bids at the Town Hall until 10 A. M. May 31, 1927, for material and labor necessary in the building of the Water-Works Improvements.

Approximately the following equipment and material will be required:

Two (2) 500 G. P. M. Motor-driven Fire Pumps.

One (1) Motor-driven Air Compressor.

One (1) 6-inch Water Well.
One (1) 50,000-Gallon Steel Tank and Tower.
One (1) 125,000-Gallon Concrete Reservoir.

2000 feet of 8-inch Cast-Iron Pipe.
5500 feet of 6-inch Cast-Iron Pipe.
8900 feet of 4-inch Cast-Iron Pipe.
9800 feet of 2-inch Cast-Iron Pipe or Steel Pipe.
Sundry Hydrants, Valves, Fittings, etc.
Pump House.
Labor laying pipe and general construction.

Plans and specifications will be on file at the office of the Town Clerk, Many, La., and at the office of the Engineers. All bids must be submitted on blanks for the purpose furnished with the specifications.

Plans and specifications, with bid sheet, can be obtained from the ENGINEERS. SWANSON-McGRAW, INC., 426 Balter Building, New Orleans, La., or A. S. GIBSON, Resident Engineer, Many, La., by depositing Ten Dollars (\$10), which amount is not refundable.

Each bid must be accompanied by a certified check (bidder's bond not acceptable) in amount of five per cent (5%) of the gross amount bid, but in no event shall check be in less amount than Fifty Dollars (\$50) as evidence of good faith.

The right is reserved to reject any or all bids, waive any or all formalities or accept any bid or bids which in the opinion of the Board appear to be to the best interest of the town.

J. M. ABINGTON, Mayor.
J. H. McNEELY, Clerk.

SWANSON-McGRAW, INC.,
Consulting Engineers,
426 Balter Building, New Orleans, La.
A. S. GIBSON, Resident Engineer,
Many, La.

Additional Proposals on Page 114.

Bids close June 1, 1927.

Machinery Equipment, Tools and Supplies

DEPARTMENT OF EDUCATION
OFFICE OF THE
BOARD OF SCHOOL COMMISSIONERS

Baltimore, Md., May 18, 1927.

Separate Sealed Proposals, in Duplicate, indorsed "Proposals for Furnishing Machinery Equipment, Tools and Supplies for Automobile Shops for the Department of Education," "Proposals for Health Suite Supplies for the Department of Education," "Proposals for Furnishing Supplies and Equipment for Mechanical Drawing Classes for the Department of Education," "Proposals for Furnishing Machinery Equipment, Tools and Supplies for Sheet-metal Shops for the Department of Education" and "Proposals for Furnishing Machinery Equipment, Tools and Supplies for General Shops for the Department of Education," addressed to the Board of Awards of Baltimore City, will be received at the office of the City Register, City Hall, Baltimore, Md., until 11 o'clock A. M. Wednesday, June 1, 1927.

Specifications for either of the above may be obtained at the office of the Board of School Commissioners, Madison and Lafayette avenues.

Each bid must be accompanied by a certified check of the bidder for \$50, made payable to the Mayor and City Council of Baltimore, and drawn on a clearing-house bank.

The successful bidder will be required to give bond for the faithful performance of his contract in an amount equal to the contract price and to comply with the City Charter respecting contracts.

The Board of Awards reserves the right to reject bids for any or all items.

JOHN H. ROCHE,
Secretary, Board of School Commissioners.
Approved May 18, 1927.
WILLIAM F. BROENING,
President, Board of Awards.

CLASSIFIED OPPORTUNITIES**MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES**

CALL OF THE OZARKS—Water power and mineral development. New folder of Facts prepaid, one dollar. It may guide you to fortune. J. H. Hand, Yellville, Arkansas.

FOR SALE—Coal and timber lands. Farms near Great Smokey Mountain Park, Tennessee. Marble quarries in operation and ready for operation on R. R. Lands for colonization purposes. We buy, sell and exchange all kinds of properties. THE U. S. REALTY CO., John H. Hatfield, Leon T. Norman, Managers, Room 4, Briscoe Building, Knoxville, Tenn.

FOR SALE—Forty to fifty million feet virgin timber, largely White Oak and Poplar. Easily accessible, where operating costs can be held at minimum. Also larger acreage of attractive Gas and Oil rights. Correspondence and inspection of property solicited by owners. I have good values to offer, but am not interested in brokers' propositions, as wish to give investors opportunity at first cost. Address W. E. AVERILL, White Sulphur Springs, W. Va.

ALABAMA LANDS—2080 acres in fee—480 acres surface, 635 acres mineral rights—on Southern R. R. and Alabama Power Co.'s power line; 50 miles south of Muscle Shoals, 85 miles north of Birmingham. These are agricultural, coal and timber and clay lands, yielding five to eight thousand tons of fire clay to the acre; Black Creek coal. Two railroad sidings on property, some houses and other improvements. Price for quick sale, \$35,000 cash. (Owners) GAMBLE BROTHERS, Haleyville, Alabama.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisements accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c per line; 500 lines or more, 25c per line.

MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES**COAL LANDS AND MINES**

LIGNITE COAL—Would like to get in communication with some individual or corporation that is interested in Lignite. I know where there are millions of tons. JNO. H. WOOTEN, JR., Carthage, Texas.

THE STRIKE in the Union Coal Fields means very profitable business for West Virginia. I have several very desirable coal-mining properties for sale in the Fairmont District.

G. B. HARTLEY,
Fairmont, W. Va.

MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES**SHALE DEPOSIT**

SHALE—Abundant deposit on railroad. No overburden. Chemical and physical properties demonstrated as to suitability for brick. Steam shovels can excavate above level of railroad for years without blasting. In heart of power belt. Good native-born labor. R. E. ANDREWS, Mount Gilead, N. C.

COAL AND TIMBER LAND

80,000 ACRES valuable Kentucky timber and coal lands. Must be sold at once to close estate.

E. D. WATKINS, Irvine, Kentucky.

TIMBER AND TIMBER LAND

FOR SALE—500 acres of land, 300,000 feet of pine timber, 1500 cords hardwood. Supply of sand unlimited. Railroad siding $\frac{3}{4}$ mile distant; river bordering on one side $\frac{3}{4}$ miles from Waycross, Ga. For quick sale, \$25 per acre.

C. M. WILLIAMS, Waycross, Ga.

TIMBER AND CUTOVER LANDS

NORTH CAROLINA is in the public eye. Ride through the State on our new hard-surface roads and you will fall in love with our great possibilities; scores of millionaires attest vision.

We offer 17,000 acres of timber and cutover lands located in Carteret County, N. C., at bargain prices, whole or part; terms if wanted. Here the State is constructing concrete roads over this property, which lies on the water, where fish and fowl are plentiful, while on the back bear and deer are in nature's home, the timber. Financial returns at once, and the future rich with timber growth, agricultural pursuits and other possibilities. Write for full particulars.

Newby, White & White, Hertford, N. C.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

THE BEST BUY IN FLORIDA. 12,000 acres high marsh land; can be drained for about \$10 per acre. Good for fig orchards, sugar cane, potatoes, willow for furniture; \$5 per acre net, one-fourth cash. SADLER, Box 484, Fernandina, Fla.

A WORD TO THE WISE!

Take advantage of buyers' market in Florida while owners of real estate need money. We offer business and home property, groves and river fronts.

GOODWIN & BAKER,
Fort Pierce, Florida.

FLORIDA HAS MADE THE GREATEST COMEBACK IN THE HISTORY OF THE WORLD."

C. W. Barron, International authority on Finance and Economics, in Wall Street Journal. Yes, we've made the safe landing, but it's still "Bargain Time" in Florida if you hurry; for instance, 400 acres, fertile land, 17 miles north of Tampa, \$20 per acre, half cash. Send today for booklet and list of Investments, Groves and Farms. TAMPA-WEST COAST REALTY CO. (INC.), Tampa, Florida.

NORTH CAROLINA

If interested

FOR HOME OR FOR INVESTMENT
In the great and rapidly developing
STATE OF NORTH CAROLINA,
especially in its leading city, Charlotte, or
in a Southern Cotton Mill or Southern Mill
Stocks, write to

F. C. ABBOTT & CO.,
Realtors and Investment Bankers.
Nearly thirty years in Charlotte.

TEXAS

FOR SALE OR RENT—800 acres on Telephone Road; Clear Creek runs through this land; good improvements; fine for dairy or small ranch. G. C. STREET, Way, 1457, Route 1, Box 406, Houston, Texas.

TEXAS "WINTER GARDEN" LANDS.

8000 acres of virgin soil in the fertile valley of the Nueces River, Dimmit County, Texas, are being subdivided, developed and offered to the public in 20 and 40 acre tracts. CLEARED, GRUBBED, PLOWED and WATERED. These lands especially adapted for the growing of CITRUS FRUITS, WINTER VEGETABLES, Staple Crops—a harvest each month in the year. Fine irrigation system. Write TODAY for literature and prices.

BERMUDA LANDS COMPANY,
Houston Building,
San Antonio, Texas.

VIRGINIA

VIRGINIA FARM FOR SALE—184½ acres, with a good house and outbuildings; 64 acres in timber, 8 acres in a good orchard. If taken now will sell at a low price. D. H. Wigfield, 5513 N. American street, Philadelphia, Pa.

BUSINESS OPPORTUNITIES

WANTED—Royalty manufacturer, or outright buyer, for cheapest, simplest, quickest, PROVEN screen window wire hanger; can be retailed for 5 cents per window. P. O. Box 2043, Daytona Beach, Florida.

COCA-COLA BOTTLING PLANT located in mid-western city. Direct franchise. Modern plant. Surfaced roads. Will bottle 5000 gallons Coca-Cola and gross 60,000 cases this year. Price \$35,000. Address No. 6722, care Manufacturers Record.

FOR SALE.

Lumber, coal and mason material yard doing a business of over \$300,000 per year. Price \$85,000, which includes about 7 acres of land right on the R. R. and on a very public road, together with stock amounting to \$50,000 to \$60,000. Terms. Have other properties as high as \$500,000, which will be submitted upon request. F. C. DUNN, 164 Main St., Hackensack, N. J.

BUSINESS OPPORTUNITIES

HOTEL SITE FREE.

Small town in South Georgia on the central Dixie Highway and Seaboard Air Line Railroad is anxious for a modern hotel. Centrally located; 600,000 population in radius of sixty-five miles. Commercial and tourists' trade. Some money and \$7000 land site free to reliable party who will build modern hotel on site. Address No. 6746, care of Manufacturers Record.

FINANCIAL

8% MONEY WANTED—I can place your money on well-located and improved property at conservative valuation to net you 8%; any amounts. FRED T. SUMNER, Hall Building, St. Petersburg, Fla.

WE OFFER First Mortgage Loans to net 7%, secured by desirable city property.

STANSBURY REALTY CO.,

1104 Candler Building, Atlanta, Ga.

20 years OWNER desires to negotiate a first mortgage loan to finance and operate with, or will sell reasonably.

MONT EYRIE is the HUB of the South's greatest potential wealth and population. It is situated less than 25 miles north of Birmingham, Ala., and comprises 5 square miles of MINERAL, TIMBER and AGRICULTURAL ACREAGE, extensive improvements, hundreds of bearing Apple and Pecan trees, hundreds of acres of cultivated field crops and an unparalleled assemblage of picturesque scenic beauty and unique suburban attractions.

The property is exceptionally accessible. It is traversed by the Ala. No. 7 and U. S. 31 Highway, which connects it with all Trunk-Line Railroads entering Birmingham. Also it is traversed by the Electric-Power Line Route and is criss-crossed by county and private roads.

MONT EYRIE is the highest point on the L. & N. R. R. between Cincinnati and the Gulf. Its fertile, frostless plateaus are endowed with an average annual rainfall of 60 inches, perfect air and water drainage, and are famous for production of superb fruits and high-grade food crops. Many miles of perpendicular Palisades rock rim its plateau heights, where blue-hazed Appalachian vistas of the surrounding kaleidoscopic terrain are only limited by power of vision. Primeval forest parks array the landscapes in seasonal colors of green, scarlet and gold. Giant tulip trees in May-crowned golden glory feast countless butterflies and bees. Innumerable other flowering trees, shrubs and vines—sweet gum, scented cedar and resinous pine—scents the air with inimitable charm.

The wonderful CRATER is more than two miles in circumference and 450 feet deep. It forms the center of a star, of which Mont Eyrle, East Mont and South Highlands are the three points. The NARROWS, which are part of the rim of the Crater, cross the chasms which separate the mountains, thereby connecting them.

The awe-inspiring CAVE extends far into the "bowels of the Limerock mountain." Its unchanging temperature, stygian darkness and labyrinth of halls and rooms lure the romantic thrill seekers. "Blowing Springs," "Erfervescent Springs," "Chalybeate Springs" and others were resorted to by caravans of health-seekers in ante-bellum times. They are highly recommended by the Ala. State chemist of that period, both for their health-promoting analysis and favorable shipping qualities.

A lovely "Appalachian Lake," 50 to 100 acres in area, 40 feet deep, with highway shore line and falls 50 to 75 feet sheer drop into the great gorge which parallels the highway, shall easily be created by utilizing near 1000 feet of NATURAL Bridge. This rare assemblage of imperishable natural beauty will become priceless and share the prestige and destiny of Birmingham. Let me show you. Write MONT EYRIE, BOX 24, WARRIOR, ALA.

FACTORY SITES

GOOD INVESTMENT—Factory site, size 125x165 feet, corner lot, paved on two sides, with switch track, adjoining Southern Railway freight station. Price \$9000. Easy terms. Literature sent upon request. Write THE STANYARNE LITTLE CO., INC., Johnson City, Tenn.

FACTORY SITES

IDEAL FOR MFG. SITE—Adjacent to Mo. P. and R. R.; big habave overflowed land; 10 houses, 28 lots, \$42,000; 1/2 cash, bal. 1 and 2 years. Clear title guaranteed. Address K. S. PHILLIPS, 1818 West Capitol avenue, Little Rock, Ark.

FOR SALE—Factory site, with water power, 175 to 500 acres, with two to four hundred horsepower available; clear water, suitable for bleachery; located on or near two main-line railways and two State Highways and near town of 4000 population. Unlimited additional electrical power available cheap. For price, terms and particulars address J. W. Maynard, Cheraw, S. C.

WATERFRONT SITES

22 miles from New Orleans
High land, on Chefuncte River; direct
waterway connection to shipside, Mississippi
River, New Orleans. Low-priced acreage.
Ideal climate. Write for pamphlet.

M. D. CONNERS, Covington, La.

TAMPA, FLORIDA—the logical distributing point. HARRIS TERMINALS—fully equipped with railroad tracks on both the Seaboard and Atlantic Coast Line railroads.

We solicit your inquiries for WAREHOUSE and FACTORY sites. Prices and terms reasonable. HARRIS REALTY CO., Realtors, 105 W. Cass St., P. O. Box 585, Tampa, Florida.

WASHINGTON, D. C. Industrial zone, 2 miles Southeast Capitol Building, 596 feet adjacent B. & O. R. R., 210 feet fronting Sumner Road, \$2,347 sq. ft. at 30c per sq. ft.; 10 p. c. off for cash. Concrete roads, sewer and water connections. Improving prospects. River wharfage 1 1/2 miles South of Capitol Building may be arranged.

W. H. BRYSON,
1017 Clinton Street, Philadelphia, Pa.

INDUSTRIES WANTED

MOUNT GILEAD, N. C. in power belt. Excellent resources, fine climate. Good, low-cost labor invites manufacturers and home builders. Write me your wants.

R. E. ANDREWS, Mount Gilead, N. C.

MR. MANUFACTURER:

Before deciding definitely on a Southern location don't fail to investigate Altavista.

No other young and growing city in Virginia can offer such advantages as our good town.

Virginia City Basic Freight Rate. Ideal climate. Abundance of labor and strikes unknown here. Free Manufacturing Sites.

For information apply to
ALTAVISTA CHAMBER OF COMMERCE,
Altavista, Va.

INDUSTRIAL PLANTS

FOR SALE.

Casket Factory in full operation. Located in a growing Southern town. Labor conditions good. Address No. 6739, care of Manufacturers Record, Baltimore, Md.

BOTTLING PLANT manufacturing nationally advertised soda waters. Two factories going full blast; operating over five counties. Price \$50,000; consider trade. P. O. Box 4528, Tampa, Fla.

FOR SALE—Quarry and crushing plant, with capacity of 700-800 tons crushed stone daily. Can be increased to 1500 tons with small expenditure. Located in Central Georgia. Good demand for products. Can be purchased at reasonable price. Address inquiries to MACON CRUSHED GRANITE COMPANY, Macon, Ga.

WATER POWER—125 h. p. (mill burned recently), with water wheels in place. Southern railroad siding. Large owner's home, all modern improvements. Superintendent's home, brick four-car garage, with apartment above; other buildings, fourteen acres, all fenced, including two-acre apple orchard. Near large electric power supply. New Market, Virginia. Good labor, ideal for moderate size industry or branch plant. Big bargain for quick action. Inspection invited. American Industries Engineering Co., 140 Cedar St., New York City.

PATENTS

WANT TO COMMUNICATE with manufacturer who is in position to manufacture and place on the market a patented side-dump vehicle body. Address P. O. Box No. 131, Lakeland, Georgia.

FOR SALE OR ROYALTY—Chiropractor's Table; may be constructed of wood or metal. Address Dr. L. H. FOUTS, 331½ Avenue "C," Lawton, Oklahoma.

PATENT ATTORNEYS

PATENTS—Booklet free. Highest references. Best results. Promptness assured. **WATSON E. COLEMAN**, Patent Lawyer, 724 Ninth St. N. W., Washington, D. C.

PATENTS—TRADEMARKS—COPYRIGHTS Charlotte Office convenient to South. **PAUL B. EATON**, Registered Patent Attorney, 406 Independence Building, Charlotte, N. C., and 903 Grant Place N. W., Washington, D. C.

PATENTS—TRADEMARKS—COPYRIGHTS Write for our free Guide Books and "RECORD OF INVENTION BLANK" before disclosing invention. Send model or sketch and description of your invention for our Inspection and Instructions free. Terms reasonable. Highest references. **VICTOR J. EVANS & CO.**, 712 Ninth, Washington, D. C.

INVENTORS—Send sketch or model of your invention for opinion concerning patentable nature and exact cost of applying for Patent. Book, "How to Obtain a Patent," sent free. Gives information on Patent procedure and tells what every inventor should know. Established 25 years. **Chandee & Chandee**, 412 Seventh St. N. W., Washington, D. C.

AGENCIES WANTED

SALESMAN, Sixteen years' successful sales experience in Va., N. C. and S. C., wants to represent manufacturer of machinery and heavy equipment. Address No. 6736, care Manufacturers Record, Baltimore, Md.

SITUATIONS WANTED

CONSTRUCTION SUPERINTENDENT, 20 years' experience on railroad construction, dams, docks, bridges, foundations and industrial buildings; go anywhere; can report on short notice. Address No. 6738, care of Manufacturers Record, Baltimore, Md.

SITUATIONS WANTED

WANTED—Connection with mfg. concern selling cotton mills. Now traveling N. C., S. C., Ga. and Ala. selling loom parts. A-1 reference. No. 6735, Manufacturers Record.

MANAGER AND EXECUTIVE shortly open for position. Technical education and 20 years' experience designing, erecting and managing industrial and mining plants and marketing the output. Address No. 6747, care of Manufacturers Record, Baltimore.

CONSTRUCTION superintendent, civil engineer, 20 years' experience, including hydroelectric developments, highways, railroads, bridges, dredging, etc. Available at once. Moderate salary. **L. E. Frissell**, Box 178, Sulphur Springs, Florida.

15 YEARS' successful experience in representing mfg. of machinery and mill supplies, with territory, office ability to make up estimates of machinery requirements and power-transmission connections and sketches of installation. Satisfactory references. Southeastern territory preferred. **Roy Gilbert**, 109 Huron Ave., Lynchburg, Va.

POSITION WANTED OR OPPORTUNITY. Sales Manager and Executive, 12 years with prominent corporation, Atlanta headquarters, desires change for larger opportunity. Particularly qualified in handling sales force and organization work. Habits and health good; educated. Only high-class proposition considered; unqualified recommendations. Address No. 6745, care of Manufacturers Record, Baltimore, Md.

SOUTH AMERICA.

Practical engineer, 40, American, 25 years in the construction field (15 of it in heavy construction and equipment business) here and South America, familiar with every detail, including **LATIN PSYCHOLOGY** and **POLITICS**, wishes connection of responsibility where initiative and keenness can be utilized. Straight salary, percentage or profit-sharing proposition. Will go anywhere. Highest business and banking references. Address No. 6737, care Manufacturers Record, Baltimore, Md.

MEN WANTED

EFFICIENCY MAN.

Thoroughly trained, capable of observing operations in a large metal-working plant in Ohio, who can eliminate unnecessary men and set equitable bonus rates. Unlimited opportunity for man of demonstrated ability, with a record of quick results. Address all communications, stating experience, age, when available, No. 6744, care of Manufacturers Record, Baltimore, Md. Information treated confidentially.

MEN WANTED

SALESMAN WANTED—Our proposition offers greater earning possibilities to the real salesman than is offered to him in most any other line. A credit and collection service with a bonded recovery obligation. **American Security Credit Company**, General Offices, St. Louis, Mo.

SALESMAN to sell Quality Goods; straight commission; exclusive territory for establishment of permanent business. Selling complete line of fire extinguishers, nationally advertised; some open territory in the Southeastern States for the right men. **FOAMITE-CHILDS CORPORATION**, 119-A Spring Street, Atlanta, Ga.

IF YOU ARE OPEN to overtures for new connection and qualified for a salary between \$2500 and \$25,000, your response to this announcement is invited. The undersigned provides a thoroughly organized service, of recognized standards and reputation, through which preliminaries are negotiated confidentially for positions of the caliber indicated. The procedure is individualized to each client's personal requirements; your identity covered and present position protected. Established sixteen years. Send only name and address for details. **R. W. BIXBY, INC.**

103 Downtown Bldg., Buffalo, New York.

CONTRACT WORK WANTED

MANUFACTURING PLANT, well equipped and located, wants something to manufacture, preferably heavy machinery. All facilities necessary, including engineering department, patent shop, foundry with a capacity for single castings in either gray iron or semi-steel up to twenty tons; well-equipped machine shop, erecting floors, etc. No. 6683, care of Manufacturers Record.

MACHINERY AND SUPPLIES

FOR SALE—Two slightly used blueprinting machines in excellent condition; special prices; write for details. **Greensboro Blueprinters**, Box 990 Greensboro, N. C.

FOR SALE—Boiler, made by Baldwin Locomotive Works, 125 horsepower, high-pressure fire box, in good condition with stack and fittings for stationary work. **Wilmington Stave Corp.**, Wilmington, N. C.

ICE-MAKING AND REFRIGERATING MACHINERY—New and rebuilt. Our prices on new Waynesboro Refrigerating equipment, delivered and installed, very low. Buy direct from the manufacturer. All sizes. Get our prices on your requirements. **GEISER MANUFACTURING COMPANY**, "Department E," Waynesboro, Pa.

SPECIAL ADVERTISEMENTS OF GENERAL INTEREST

IF IT IS MACHINERY

You have to BUY
or SELL use our

RESALE DEPARTMENT

MANUFACTURERS RECORD
Baltimore, Md.

SALES AGENT WANTED

A well known manufacturer of Electric Overhead Traveling Cranes and Hoists desires high class agency representation in the following territories:

Richmond Atlanta
Jacksonville New Orleans
Houston

Only established agencies will be considered.

Address A-421

Care of Manufacturers Record

Baltimore, Md.



FOR SALE CHEAP

AUSTIN DITCHER—27 ins. wide by 10 ft. deep capacity—Gasoline Driven—Crawler Traction.
 AUSTIN STEAM SHOVEL—one yard Bucket—Crawler Traction.
 ERIE STEAM SHOVELS— $\frac{1}{2}$ yard Buckets—Iron Wheel Traction.
 BUCYRUS STEAM SHOVEL— $\frac{1}{2}$ yard Bucket—Iron Wheel Traction.
 FLORY AND LIDGERWOOD HOISTING ENGINES—various sizes.
 CLAMSHELL BUCKET—one yard capacity.
 HAYWARD ORANGE PEEL BUCKETS— $\frac{1}{4}$ yard capacity.
 AUSTIN, YEAGER and SMITH CONCRETE MIXERS—various sizes.
 CLIMAX JAW ROCK CRUSHER—10" x 20"—on wheels.
 STURTEVANT JAW ROCK CRUSHER—7" x 14"—on skids.
 McCULLY GYRATORY ROCK CRUSHER—No. 7½—capacity up to 180 tons per hour.
 INGERSOLL-SARGENT AIR COMPRESSOR—12" x 14" x 12"—350 cu. ft.—Steam Driven.
 CHICAGO PNEUMATIC AIR COMPRESSOR—9" x 11"—130 cu. ft.—Belt Driven.
 WESTINGHOUSE BRAKE AIR COMPRESSOR—15 cu. ft.—D. C. Motor Driven.
 BALDWIN SADDLE TANK LOCOMOTIVE—14" x 24"—standard Gauge.
 BALDWIN 2-6-0 LOCOMOTIVE—13" x 24"—36" Gauge.
 BALDWIN 4-4-0 LOCOMOTIVE—14" x 24"—36" Gauge.
 HEISLER GEARED LOCOMOTIVE—12" x 10"—36" Gauge.
 EVINRUDE CENTRIFUGAL PUMP—100 gals. per minute—Gasoline Driven.
 HUMPHREY'S DIAPHRAGM TRENCH PUMPS—Hand and Gasoline Engine Driven.
 FIRE BOX BOILERS—25, 60 and 90 Horse Power.
 SCOTCH MARINE BOILER—115 Horse Power.
 CENTRIFUGAL PUMPS—various makes and sizes.
 SINGLE and DUPLEX STEAM PUMPS—various makes and sizes.
 TRIPLEX POWER PUMPS—various makes and sizes.
 ALTERNATING CURRENT MOTORS—30 to 100 Horse Power.
 DIRECT CURRENT MOTORS—1 to 55 Horse Power.

CHARLES T. LEHMAN
Birmingham, Alabama

BOILER—150 H. P. Erie City Economic boiler ASME code, 100-lb. pressure, used two months only.

HEATER—I—1200 H. P. Cochrane open type feed water heater, back pressure design.

PUMPS—2—9" x 5½" x 10" Worthington duplex outside packed boiler feed pump 200-lb. pressure.

GENERATOR SET—I—125 K.W., 220 volt, 3 phase, 60 cycle, General Electric generator with Harrisburg engine.

GUARANTEED MACHINERY

I—6' Dresser full Universal Radial 8.P. drive.
 I—24-48x20' McCabe double spindle lathe belt drive.
 I—36" x 20' Sidney lathe belt drive Q.C.G.
 I—28" x 26' Lodge & Shipley lathe belt drive Q.C.G.
 I—26" x 12' Putman belt drive heavy duty Q.C.
 I—60" x 60" x 24' Sellers planer 4 heads belt drive.
 I—27" x 27" x 8' Woodward & Powell planer; 2 heads, belt drive, as good as new.
 I—36" x 36" x 24' Bement planer 4 heads belt drive.
 I—24" Steptoe back geared crank shaper belt drive.
 I—20" Stockbridge back geared crank shaper motor drive.
 I—20" Bement traveling head shaper belt drive.
 I—17" Bement traveling head shaper 2 heads.
 I—No. 20 Bliss inclinable geared press 2" stroke.
 I—No. 2000 Chambersburg double frame steam forging hammer.

THE O'BRIEN MACHINERY CO.

113 North Third Street, Philadelphia, Pa.
Long Distance Telephone: Market 0727
Cable Address: "OBRIEN," PHILADELPHIA

FOR SALE

Full Diesel Type and Semi-Diesel Oil Engines

of best known makes and types; both new and rebuilt, for both stationary and marine service—in sizes from 20 BHP up to 3000 BHP.

Also Gas and Gasoline Engines
for all power purposes

Write or wire full details of your requirements—for quotations, proposals and deliveries.

A. McMILLAN

628 Monadnock Block
Chicago
Specialist in Diesel type Oil and other
Internal Combustion Engineering.

PIPE

Rethreaded, reconditioned, guaranteed, suitable for all practical purposes, furnished with new threads and couplings.

400,000 feet in all sizes from 24" to $\frac{1}{2}$ ".

Also large stock of spiral pipe sizes 7", 10", 12", 14", 20", and 24".

Large stock of valves and fittings, screwed and flanged. Can make attractive prices.

MARINE METAL & SUPPLY CO.
167 South St., New York City

PIPE NEW
SECOND HAND
Overhauled and Tested
New Threads and Couplings

Established 1904
Albert & Davidson
Pipe Corp.
256-264 Oakland St. Brooklyn, N. Y.

Second Hand
and New
Wrought Iron **PIPE** Overhauled
Rethreaded
and Coupled

Also Cut to Sketch

Greenpoint Iron & Pipe Co., Inc.
187-197 Maspeth Ave. Brooklyn, N. Y.

IRON AND STEEL PIPE

Large quantity new and used Government material in excellent condition, ready for immediate shipment. Low Prices.

CENTRAL PIPE & SUPPLY CO.
Box 1099
Charleston, W. Va.

Albert Pipe Supply Co., Inc.

NEW  USED

RECLAIMED

PIPE

ALL SIZES CUT TO SKETCH
Berry & North 13th Sts., Brooklyn, N.Y.

PIPE
TUBES
TUBING

For all purposes

Columbia Steel & Tube Corporation
233 Broadway, New York City

Familiarize yourself
with the
SOUTH'S progress
by reading the
MANUFACTURERS RECORD

FOR SALE

1—8-ft. Wheland Band Mill, complete equipment every respect, also portable frame if desired. Location East Tennessee.

Also six miles 25-lb. and 30-lb. steel rail, 3 Fordson-Adamson Locomotives, 12 lumber cars, complete incline outfit. All high class equipment. Write

P. O. Box No. 323
Abingdon, Virginia

Production / Insurance /

EVERY roll of Goodrich "1788 Highflex" in your storeroom is an asset, representing real dollars of saving in maintenance.

It is, actually, more than just a roll of belt. It contains hidden values that will make themselves more and more evident with passing months of trouble-free service; lower maintenance cost; fewer take-ups; less belt-dressing; fewer fasteners; full power transmission; fewer shut-downs; freedom from stretch; the satisfaction of knowing you have the best belting skill can build or money can buy; greater production; higher efficiency; greater profits.

Standardize on "1788 Highflex"!

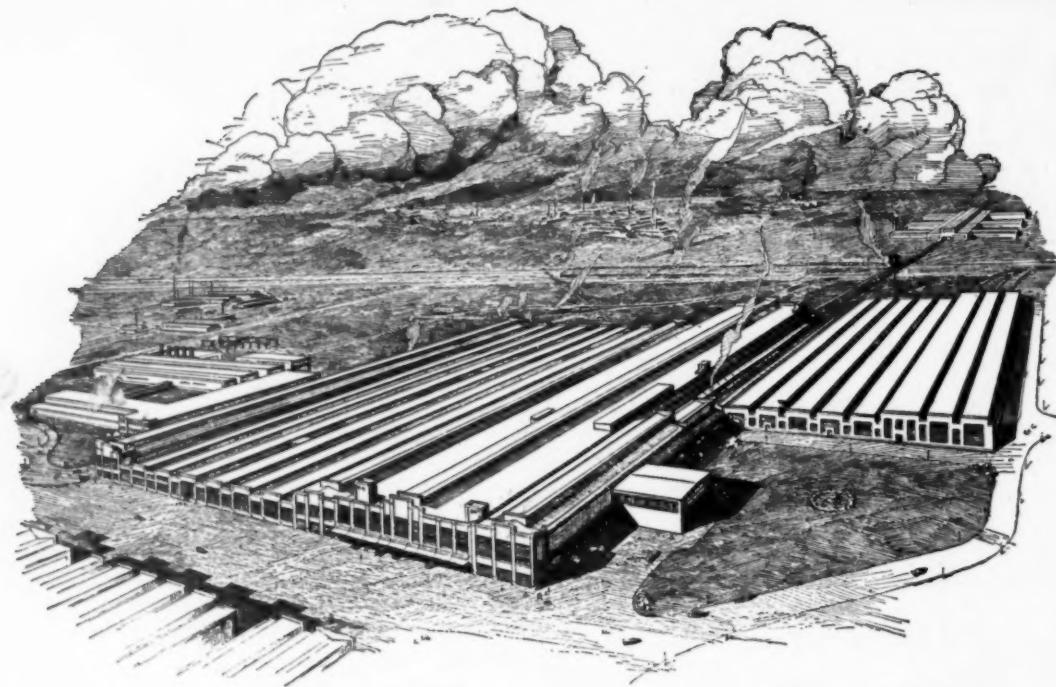
Made in all sizes,
open end or endless.

THE B. F. GOODRICH RUBBER COMPANY
Established 1870 Akron, Ohio

Goodrich

“1788 Highflex” Belt





Oakland's Promise Fulfilled

New Pontiac Six Plant Ready to Deliver 1000 Cars a Day

ALREADY operating at maximum capacity last spring, the Oakland Motor Car Co. Division of General Motors Corporation found it impossible to fill the increasing orders for Oakland Cars, while the instant and overwhelming demand for the new Pontiac called for the construction of a separate and complete plant for this popular priced Six.

The contract for the \$15,000,000 building program decided upon—representing the combined cost of the new 1000-car-per-day Pontiac plant and of important expansions in the facilities devoted to the manufacture of Oakland Sixes—was awarded The Austin Company, including design, construction and equipment.

Starting in August, with roads and sewers to be built, as well as buildings, on a tract of rolling land, Austin handled the entire project with such speed and thoroughness that in seven months Pontiac Cars were going down the assembly line in the new plant.

No word description or artist's picture can convey an adequate idea of the immensity of this plant, with its 35 acres of floor space, or what it meant to design and build it complete in seven months' time. Suffice it to say that Oakland is now prepared to meet the demand for Pontiac Sixes, and Austin is proud to have had a major part in this great enterprise.

THE AUSTIN COMPANY, Engineers and Builders, Cleveland
New York Cincinnati Chicago Detroit Pittsburgh Philadelphia St. Louis Seattle Portland Miami
The Austin Company of Texas: Dallas The Austin Company of California: Los Angeles and San Francisco

